THIS AGREEMENT is made and entered into this 23rd day of July, 2019 ("Effective Date"), by and between the CITY OF PLACENTIA, a municipal corporation ("City"), and NV5, INC., a California Corporation ("Consultant").

WITNESSETH:

A.  WHEREAS, City proposes to utilize the services of Consultant as an independent contractor to provide accessibility design services, as more fully described herein; and

B.  WHEREAS, Consultant represents that it is "design professional" as that term is defined by California Civil Code Section 2782.8 and has that degree of specialized expertise contemplated within California Government Code Section 37103, and holds all necessary licenses to practice and perform the services herein contemplated, including credentials as a Certified Access Specialist under Subchapter 2.5 of Title 21 of the California Code of Regulations; and

C.  WHEREAS, City and Consultant desire to contract for the specific services described in Exhibit "A" (the "Project") and desire to set forth their rights, duties and liabilities in connection with the services to be performed; and

D.  WHEREAS, among other reasons, the City is hiring Consultant to perform accessibility design services at a number of sites within the City to comply with all applicable accessibility requirements. Accordingly, Consultant desires to perform these services and to bear all risk the City may bear resulting from accessibility designs that are not compliant;

E.  WHEREAS, no official or employee of City has a financial interest, within the provisions of Sections 1090-1092 of the California Government Code, in the subject matter of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions contained herein, the parties hereby agree as follows:

1.0.  SERVICES PROVIDED BY CONSULTANT

1.1.  Scope of Services. Consultant shall provide the professional services described in the Consultant's Proposal ("Proposal"), attached hereto as Exhibit "A" and incorporated herein by this reference, including but not limited to, preparing all design documents free from defects.

1.2.  Professional Practices. All professional services to be provided by Consultant pursuant to this Agreement shall be provided by personnel experienced in their respective fields and in a manner consistent with the standards of care, diligence and skill ordinarily exercised by professional consultants in similar fields and circumstances in accordance with sound professional practices, and with credentials as a Certified Access Specialist under Subchapter 2.5 of Title 21 of the California Code of Regulations. Consultant also warrants that it is familiar with all laws that may affect its performance of this Agreement and shall advise City of any changes in any laws that may affect Consultant's performance of this Agreement. Consultant
shall keep itself informed of State and Federal laws and regulations which in any manner affect those employed by it or in any way affect the performance of its service pursuant to this Agreement. The Consultant shall at all times observe and comply with all such laws and regulations. Officers and employees shall not be liable at law or in equity occasioned by failure of the Consultant to comply with this section. Consultant also warrants that it has ownership of all intellectual property being provided under this Agreement.

1.3. Performance to Satisfaction of City. Consultant agrees to perform all the work to the complete satisfaction of the City and within the hereinafter specified. Evaluations of the work will be done by the City Administrator or his or her designee. If the quality of work is not satisfactory, City in its discretion has the right to:

(a) Meet with Consultant to review the quality of the work and resolve the matters of concern;

(b) Require Consultant to repeat the work at no additional fee until it is satisfactory; and/or

(c) Terminate the Agreement as hereinafter set forth.

1.4. Warranty. Consultant warrants that it shall perform the services required by this Agreement in compliance with all applicable Federal and California employment laws, including, but not limited to, those laws related to minimum hours and wages; occupational health and safety; fair employment and employment practices; workers’ compensation insurance and safety in employment; and all other Federal, State and local laws and ordinances applicable to the services required under this Agreement. Consultant shall indemnify and hold harmless City from and against all claims, demands, payments, suits, actions, proceedings, and judgments of every nature and description including attorneys' fees and costs, presented, brought, or recovered against City for, or on account of any liability under any of the above-mentioned laws, which may be incurred by reason of Consultant’s performance under this Agreement.

1.5. Non-discrimination. In performing this Agreement, Consultant shall not engage in, nor permit its agents to engage in, discrimination in employment of persons because of their race, religion, color, national origin, ancestry, age, physical handicap, medical condition, marital status, sexual gender or sexual orientation, except as permitted pursuant to Section 12940 of the Government Code. Such actions shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training, including apprenticeship. Consultant agrees to post in conspicuous places, available to employees and applicants for employment, a notice setting forth provisions of this non-discrimination clause.

Consultant shall, in all solicitations and advertisements for employees placed by, or on behalf of Consultant shall state that all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, marital status, national origin, or mental or physical disability. Consultant shall cause the paragraphs contained in this Section to be inserted in all subcontracts for any work covered by the Agreement, provided that the foregoing provisions shall not apply to subcontracts for standard commercial supplies or raw materials.

1.6. Non-Exclusive Agreement. Consultant acknowledges that City may enter into agreements with other consultants for services similar to the services that are subject to this Agreement or may have its own employees perform services similar to those services
contemplated by this Agreement.

1.7. Delegation and Assignment. This is a personal service contract, and the duties set forth herein shall not be delegated or assigned to any person or entity without the prior written consent of City. Consultant may engage a subcontractor(s) as permitted by law and may employ other personnel to perform services contemplated by this Agreement at Consultant's sole cost and expense. All insurance requirements contained in this Agreement are independently applicable to any and all subcontractors that Consultant may engage during the term of this Agreement.

1.8. Confidentiality. Employees of Consultant in the course of their duties may have access to financial, accounting, statistical, and personnel data of private individuals and employees of City. Consultant covenants that all data, documents, discussion, or other information developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed by Consultant without written authorization by City. City shall grant such authorization if disclosure is required by law. All City data shall be returned to City upon the termination of this Agreement. Consultant's covenant under this Section shall survive the termination of this Agreement.

2.0. COMPENSATION AND BILLING

2.1. Compensation. Consultant shall be paid in accordance with the fee schedule set forth in Exhibit "A". Consultant’s total compensation shall not exceed Three Hundred Eight Thousand and Five Hundred Dollars ($308,500.00).

2.2. Additional Services. Consultant shall not receive compensation for any services provided outside the scope of services specified in the Consultant's Proposal or which is inconsistent with or in violation of the provisions of this Agreement unless the City or the Project Manager for this Project, prior to Consultant performing the additional services, approves such additional services in writing. It is specifically understood that oral requests and/or approvals of such additional services or additional compensation shall be barred and are unenforceable. Should the City request in writing additional services that increase the hereinabove described "SCOPE OF SERVICES", an additional fee based upon the Consultant's standard hourly rates shall be paid to the Consultant for such additional services. Such increase in additional fees shall be limited to 25% of the total contract sum or $25,000 whichever is more. The City Engineer is authorized to approve a Change Order for such additional services.

2.3. Method of Billing. Consultant may submit invoices to the City for approval on a progress basis, but no more often than two times a month. Said invoice shall be based on the total of all Consultant's services which have been completed to City's sole satisfaction. City shall pay Consultant's invoice within forty-five (45) days from the date City receives said invoice. Each invoice shall describe in detail, the services performed, the date of performance, and the associated time for completion. Any additional services approved and performed pursuant to this Agreement shall be designated as "Additional Services" and shall identify the number of the authorized change order, where applicable, on all invoices.

2.4. Records and Audits. Records of Consultant’s services relating to this Agreement shall be maintained in accordance with generally recognized accounting principles and shall be made available to City or its Project Manager for inspection and/or audit at mutually convenient times for a period of three (3) years from the Effective Date.
3.0. TIME OF PERFORMANCE

3.1. Commencement and Completion of Work. The professional services to be performed pursuant to this Agreement shall commence within five (5) days from the Effective Date of this Agreement. Said services shall be performed in strict compliance with the Project Schedule approved by City as set forth in Exhibit “A”.

3.2. Excusable Delays. Neither party shall be responsible for delays or lack of performance resulting from acts beyond the reasonable control of the party or parties. Such acts shall include, but not be limited to, acts of God, fire, strikes, material shortages, compliance with laws or regulations, riots, acts of war, or any other conditions beyond the reasonable control of a party. If a delay beyond the control of the Consultant is encountered, a time extension may be mutually agreed upon in writing by the City and the Consultant. The Consultant shall present documentation satisfactory to the City to substantiate any request for a time extension.

4.0. TERM AND TERMINATION

4.1. Term. This Agreement shall commence on the Effective Date and continue for a period of 36 months, ending on July 9, 2022, unless previously terminated as provided herein or as otherwise agreed to in writing by the parties.

4.2. Notice of Termination. The City reserves and has the right and privilege of canceling, suspending or abandoning the execution of all or any part of the work contemplated by this Agreement, with or without cause, at any time, by providing at least fifteen (15) days prior written notice to Consultant. The termination of this Agreement shall be deemed effective upon receipt of the notice of termination. In the event of such termination, Consultant shall immediately stop rendering services under this Agreement unless directed otherwise by the City. If the City suspends, terminates or abandons a portion of this Agreement such suspension, termination or abandonment shall not make void or invalidate the remainder of this Agreement.

If the Consultant defaults in the performance of any of the terms or conditions of this Agreement, it shall have ten (10) days after service upon it of written notice of such default in which to cure the default by rendering a satisfactory performance. In the event that the Consultant fails to cure its default within such period of time, the City shall have the right, notwithstanding any other provision of this Agreement, to terminate this Agreement without further notice and without prejudice to any other remedy to which it may be entitled at law, in equity or under this Agreement.

The City shall have the right, notwithstanding any other provisions of this Agreement, to terminate this Agreement, at its option and without prejudice to any other remedy to which it may be entitled at law, in equity or under this Agreement, immediately upon service of written notice of termination on the Consultant, if the latter should:

a. Be adjudged a bankrupt;

b. Become insolvent or have a receiver of its assets or property appointed because of insolvency;

c. Make a general assignment for the benefit of creditors;

d. Default in the performance of any obligation or payment of any indebtedness under this Agreement;
e. Suffer any judgment against it to remain unsatisfied or unbonded of record for thirty (30) days or longer; or
f. Institute or suffer to be instituted any procedures for reorganization or rearrangement of its affairs.

4.3. Compensation. In the event of termination, City shall pay Consultant for reasonable costs incurred and professional services satisfactorily performed up to and including the date of City's written notice of termination within thirty-five (35) days after service of the notice of termination. Compensation for work in progress shall be prorated based on the percentage of work completed as of the effective date of termination in accordance with the fees set forth herein. In ascertaining the professional services actually rendered hereunder up to the effective date of termination of this Agreement, consideration shall be given to both completed work and work in progress, to complete and incomplete drawings, and to other documents pertaining to the services contemplated herein whether delivered to the City or in the possession of the Consultant. City shall not be liable for any claim of lost profits.

4.4. Documents. In the event of termination of this Agreement, all documents prepared by Consultant in its performance of this Agreement including, but not limited to, finished or unfinished design, development and construction documents, data studies, drawings, maps and reports, shall be delivered to the City within ten (10) days of delivery of termination notice to Consultant, at no cost to City. Any use of uncompleted documents without specific written authorization from Consultant shall be at City's sole risk and without liability or legal expense to Consultant.

5.0. INSURANCE

5.1. Minimum Scope and Limits of Insurance. Consultant shall obtain, maintain, and keep in full force and effect during the life of this Agreement all of the following minimum scope of insurance coverages with an insurance company admitted to do business in California, rated "A," Class X, or better in the most recent Best's Key Insurance Rating Guide, and approved by City:

(a) Broad-form commercial general liability, in a form at least as broad as ISO from #CG 00 01 04 13, including premises-operations, products/completed operations, broad form property damage, blanket contractual liability, independent contractors, personal injury or bodily injury with a policy limit of not less than One Million Dollars ($1,000,000.00), combined single limits, per occurrence. If such insurance contains a general aggregate limit, it shall apply separately to this Agreement or shall be twice the required occurrence limit. If Consultant maintains higher limits that the specified minimum limits, City requires and shall be entitled to coverage for the high limits maintained by the Consultant.

(b) Business automobile liability for owned vehicles, hired, and non-owned vehicles, with a policy limit of not less than One Million Dollars ($1,000,000.00), combined single limits, each incident for bodily injury and property damage.

(c) Workers' compensation insurance as required by the State of California and Employers Liability Insurance with a minimum limit of $1,000,000 per accident for any employee or employees of Consultant. Consultant
agrees to waive, and to obtain endorsements from its workers' compensation insurer waiving subrogation rights under its workers' compensation insurance policy against the City, its officers, agents, employees, and volunteers for losses arising from work performed by Consultant for the City and to require each of its subcontractors, if any, to do likewise under their workers' compensation insurance policies.

Before execution of this Agreement by the City, the Consultant shall file with the Public Works Director/City Engineer the following signed certification:

I am aware of, and will comply with, Section 3700 of the Labor Code, requiring every employer to be insured against liability of Workers' Compensation or to undertake self-insurance before commencing any of the work.

The Consultant shall also comply with Section 3800 of the Labor Code by securing, paying for and maintaining in full force and effect for the duration of this Agreement, complete Workers' Compensation Insurance, and shall furnish a Certificate of Insurance to the Public Works Director/City Engineer before execution of this Agreement by the City. The City, its officers and employees shall not be responsible for any claims in law or equity occasioned by failure of the consultant to comply with this section.

(d) Professional errors and omissions ("E&O") liability insurance with policy limits of not less than One Million Dollars ($1,000,000.00), combined single limits, per occurrence and aggregate. Architects' and engineers' coverage shall be endorsed to include contractual liability. If the policy is written as a "claims made" policy, the retro date shall be prior to the start of the contract work. Consultant shall obtain and maintain, said E&O liability insurance during the life of this Agreement and for three years after completion of the work hereunder.

Neither the CITY nor any of its elected or appointed officials, officers, agents, employees, or volunteers makes any representation that the types of insurance and the limits specified to be carried by Consultant under this Agreement are adequate to protect Consultant. If Consultant believes that any such insurance coverage is insufficient, Consultant shall provide, at its own expense, such additional insurance as Consultant deems adequate.

5.2. Endorsements. The commercial general liability insurance policy and business automobile liability policy shall contain or be endorsed to contain the following provisions as worded below:

(a) Additional insureds: "The City of Placentia and its elected and appointed boards, officers, officials, agents, employees, and volunteers are additional insureds with respect to: liability arising out of activities performed by or on behalf of the Consultant pursuant to its contract with the City; products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; automobiles owned, leased, hired, or borrowed by the Consultant."

(b) Notice: "Consultant shall provide immediate written notice if (1) any of the
required insurance policies is terminated; (2) the limits of any of the required polices are reduced; (3) or the deductible or self insured retention is increased. In the event of any cancellation or reduction in coverage or limits of any insurance, Consultant shall forthwith obtain and submit proof of substitute insurance. Should Consultant fail to immediately procure other insurance, as specified, to substitute for any canceled policy, the City may procure such insurance at Consultant's sole cost and expense."

(c) Other insurance: "The Consultant's insurance coverage shall be primary insurance as respects the City of Placentia, its officers, officials, agents, employees, and volunteers. Any other insurance maintained by the City of Placentia shall be excess and not contributing with the insurance provided by this policy."

(d) Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the City of Placentia, its officers, officials, agents, employees, and volunteers.

(e) The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5.3. **Deductible or Self Insured Retention.** If any of such policies provide for a deductible or self-insured retention to provide such coverage, the amount of such deductible or self-insured retention shall be approved in advance by City. No policy of insurance issued as to which the City is an additional insured shall contain a provision which requires that no insured except the named insured can satisfy any such deductible or self-insured retention.

5.4. **Certificates of Insurance.** Consultant shall provide to City certificates of insurance showing the insurance coverages and required endorsements described above, in a form and content approved by City, prior to performing any services under this Agreement. The certificates of insurance and endorsements shall be attached hereto as Exhibit "B" and incorporated herein by this reference.

5.5. **Non-limiting.** Nothing in this Section shall be construed as limiting in any way, the indemnification provision contained in this Agreement, or the extent to which Consultant may be held responsible for payments of damages to persons or property.

6.0. **GENERAL PROVISIONS**

6.1. **Entire Agreement.** This Agreement constitutes the entire agreement between the parties with respect to any matter referenced herein and supersedes any and all other prior writings and oral negotiations. This Agreement may be modified only in writing, and signed by the parties in interest at the time of such modification. The terms of this Agreement shall prevail over any inconsistent provision in any other contract document appurtenant hereto, including exhibits to this Agreement.

6.2. **Representatives.** The City Administrator or his or her designee shall be the representative of City for purposes of this Agreement and may issue all consents, approvals, directives and agreements on behalf of the City, called for by this Agreement, except as otherwise expressly provided in this Agreement.
Consultant shall designate a representative for purposes of this Agreement who shall be authorized to issue all consents, approvals, directives and agreements on behalf of Consultant called for by this Agreement, except as otherwise expressly provided in this Agreement.

6.3. **Project Managers.** City shall designate a Project Manager to work directly with Consultant in the performance of this Agreement. It shall be the Consultant's responsibility to assure that the Project Manager is kept informed of the progress of the performance of the services and the Consultant shall refer any decision, which must be made by City, to the Project Manager. Unless otherwise specified herein, any approval of City required hereunder shall mean the approval of the Project Manager.

Consultant shall designate a Project Manager who shall represent it and be its agent in all consultations with City during the term of this Agreement and who shall not be changed by Consultant without the express written approval by the City. Consultant or its Project Manager shall attend and assist in all coordination meetings called by City.

6.4. **Notices.** Any notices, documents, correspondence or other communications concerning this Agreement or the work hereunder may be provided by personal delivery, facsimile or if mailed, shall be addressed as set forth below and placed in a sealed envelope, postage prepaid, and deposited in the United States Postal Service. Such communication shall be deemed served or delivered: a) at the time of delivery if such communication is sent by personal delivery; b) at the time of transmission if such communication is sent by facsimile; and c) 72 hours after deposit in the U.S. Mail as reflected by the official U.S. postmark if such communication is sent through regular United States mail.

**IF TO CONSULTANT:**

NV5, Inc.
9890 Irvine Center Drive
Irvine, CA 92618
Tel: 949-585-0477
Fax: 949-585-0433
Attn: Jeffrey Cooper, P.E.

**IF TO CITY:**

City of Placentia
401 E. Chapman
Placentia, CA 92870
Tel: 714-993-8132
Fax: 714-961-0283
Attn: Masoud Sepahi, P.E.
City Engineer

6.5. **Attorneys' Fees.** In the event that litigation is brought by any party in connection with this Agreement, the prevailing party shall be entitled to recover from the opposing party all costs and expenses, including reasonable attorneys' fees, incurred by the prevailing party in the exercise of any of its rights or remedies hereunder or the enforcement of any of the terms, conditions, or provisions hereof.

6.6. **Governing Law.** This Agreement shall be governed by and construed under the laws of the State of California without giving effect to that body of laws pertaining to conflict of laws. In the event of any legal action to enforce or interpret this Agreement, the parties hereto agree that the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California. Consultant agrees to submit to the personal jurisdiction of such court in the event of such action.

6.7. **Assignment.** Consultant shall not voluntarily or by operation of law assign, transfer, sublet or encumber all or any part of Consultant's interest in this Agreement without
City’s prior written consent. Any attempted assignment, transfer, subletting or encumbrance shall be void and shall constitute a breach of this Agreement and cause for termination of this Agreement. Regardless of City’s consent, no subletting or assignment shall release Consultant of Consultant’s obligation to perform all other obligations to be performed by Consultant hereunder for the term of this Agreement.

6.8. Indemnification and Hold Harmless. Consultant agrees to defend, indemnify, hold free and harmless the City, its elected and appointed officials, officers, agents and employees, at Consultant’s sole expense, from and against any and all claims, demands, actions, suits or other legal proceedings arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of Consultant brought against the City, its elected and appointed officials, officers, agents and employees arising out of the performance of the Consultant, its employees, and/or authorized subcontractors, of the work undertaken pursuant to this Agreement. The defense obligation provided for hereunder shall apply apply whenever any claim, action, complaint or suit asserts liability against the City, its elected and appointed officials, officers, agents and employees based upon the negligence, recklessness, or willful misconduct of the Consultant, its employees, and/or authorized subcontractors under this Agreement, whether or not the Consultant, its employees, and/or authorized subcontractors are specifically named or otherwise asserted to be liable. Notwithstanding the foregoing, the Consultant shall not be liable for the defense or indemnification of the City for claims, actions, complaints or suits arising out of the sole active negligence or willful misconduct of the City. This provision shall supersede and replace all other indemnity provisions contained either in the City’s specifications or Consultant’s Proposal, which shall be of no force and effect.

6.9. Independent Contractor. Consultant is and shall be acting at all times as an independent contractor and not as an employee of City. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant’s employees, except as set forth in this Agreement. Consultant shall not, at any time, or in any manner, represent that it or any of its or employees are in any manner agents or employees of City. Consultant shall secure, at its sole expense, and be responsible for any and all payment of Income Tax, Social Security, State Disability Insurance Compensation, Unemployment Compensation, and other payroll deductions for Consultant and its officers, agents, and employees, and all business licenses, if any are required, in connection with the services to be performed hereunder. Consultant shall indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant further agrees to indemnify and hold City harmless from any failure of Consultant to comply with the applicable worker’s compensation laws. City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant’s failure to promptly pay to City any reimbursement or indemnification arising under this paragraph.

6.10. PERS Eligibility Indemnification. In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.
Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility to enroll in PERS as an employee of City and entitlement to any contribution to be paid by City for employer contribution and/or employee contributions for PERS benefits.

6.11. **Cooperation.** In the event any claim or action is brought against City relating to Consultant's performance or services rendered under this Agreement, Consultant shall render any reasonable assistance and cooperation which City might require.

6.12. **Ownership of Documents.** All findings, reports, documents, information and data including, but not limited to, computer tapes or discs, preliminary notes, working documents, files and tapes furnished or prepared by Consultant or any of its subcontractors in the course of performance of this Agreement, shall be and remain the sole property of City. Consultant agrees that any such documents or information shall not be made available to any individual or organization without the prior consent of City, but shall be made available to the City within ten (10) days of request or within ten (10) days of termination. Any use of such documents for other projects not contemplated by this Agreement, and any use of incomplete documents, shall be at the sole risk of City and without liability or legal exposure to Consultant. City shall indemnify and hold harmless Consultant from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from City's use of such documents for other projects not contemplated by this Agreement or use of incomplete documents furnished by Consultant. Consultant shall deliver to City any findings, reports, documents, information, data, preliminary notes and working documents, in any form, including but not limited to, computer tapes, discs, files audio tapes or any other Project related items as requested by City or its authorized representative, at no additional cost to the City. Consultant or Consultant's agents shall execute such documents as may be necessary from time to time to confirm City's ownership of the copyright in such documents.

6.13. **Public Records Act Disclosure.** Consultant has been advised and is aware that this Agreement and all reports, documents, information and data, including, but not limited to, computer tapes, discs or files furnished or prepared by Consultant, or any of its subcontractors, pursuant to this Agreement and provided to City may be subject to public disclosure as required by the California Public Records Act (California Government Code Section 6250 et seq.). Exceptions to public disclosure may be those documents or information that qualify as trade secrets, as that term is defined in the California Government Code Section 6254.7, and of which Consultant informs City of such trade secret. The City will endeavor to maintain as confidential all information obtained by it that is designated as a trade secret. The City shall not, in any way, be liable or responsible for the disclosure of any trade secret including, without limitation, those records so marked if disclosure is deemed to be required by law or by order of the Court.

6.14. **Conflict of Interest.** Consultant and its officers, employees, associates and subconsultants, if any, will comply with all conflict of interest statutes of the State of California applicable to Consultant's services under this agreement, including, but not limited to, the Political Reform Act (Government Code Sections 81000, et seq.) and Government Code Section 1090. During the term of this Agreement, Consultant and its officers, employees, associates and subconsultants shall not, without the prior written approval of the City Representative, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subconsultants to abstain from a decision under this Agreement pursuant to a conflict of interest statute.
6.15. **Responsibility for Errors.** Consultant shall be responsible for its work and results under this Agreement. Consultant, when requested, shall furnish clarification and/or explanation as may be required by the City’s representative, regarding any services rendered under this Agreement at no additional cost to City. In the event that an error or omission attributable to Consultant occurs, then Consultant shall, at no cost to City, provide all necessary design drawings, estimates and other Consultant professional services necessary to rectify and correct the matter to the sole satisfaction of City and to participate in any meeting required with regard to the correction.

6.16. **Prohibited Employment.** Consultant will not employ any regular employee of City while this Agreement is in effect. Furthermore, Consultant will comply with the following:

(a) **Unauthorized Aliens.** Consultant hereby represents and warrants that it will comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C.A. §§ 1101, et seq., as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of any work and/or services under this Agreement, and should any liability or sanctions be imposed against City for such use of unauthorized aliens, Consultant hereby agrees to reimburse City for any and all liabilities, actions, suits, claims, demands, losses, costs, judgments, arbitration awards, settlements, damages, demands, orders, or penalties which arise out of or are related to such employment, together with any and all costs, including attorneys’ fees, incurred by City.

(b) **E-Verify.** If Consultant is not already enrolled in the U.S. Department of Homeland Security’s E-Verify program, Consultant shall enroll in the E-Verify program within fifteen (15) days of the effective date of this Agreement to verify the employment authorization of employees assigned to perform work hereunder. Consultant shall verify employment authorization within three (3) days of hiring a new employee to perform work under this Agreement. Information pertaining to the E-Verify program can be found at [http://www.uscis.gov](http://www.uscis.gov) or access the registration page at [https://e-verify.uscis.gov/enroll](https://e-verify.uscis.gov/enroll). Consultant shall certify its registration with E-Verify and provide City its registration number within sixteen days of the effective date of this Agreement. Failure to provide certification will result in withholding payment until full compliance is demonstrated.

6.17. **Order of Precedence.** In the event of an inconsistency in this Agreement and any of the attached Exhibits, the terms set forth in this Agreement shall prevail. If, and to the extent this Agreement incorporates by reference any provision of any document, such provision shall be deemed a part of this Agreement. Nevertheless, if there is any conflict among the terms and conditions of this Agreement and those of any such provision or provisions so incorporated by reference, the conflict shall be resolved by giving precedence in the following order, if applicable: This Agreement, the City’s Request for Proposals, the Consultant’s Proposal.

6.18. **Costs.** Each party shall bear its own costs and fees incurred in the preparation and negotiation of this Agreement and in the performance of its obligations hereunder except as expressly provided herein.
6.19. **No Third Party Beneficiary Rights.** This Agreement is entered into for the sole benefit of City and Consultant and no other parties are intended to be direct or incidental beneficiaries of this Agreement and no third party shall have any right in, under or to this Agreement.

6.20. **Headings.** Paragraphs and subparagraph headings contained in this Agreement are included solely for convenience and are not intended to modify, explain or to be a full or accurate description of the content thereof and shall not in any way affect the meaning or interpretation of this Agreement.

6.21. **Construction.** The parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises with respect to this Agreement, this Agreement shall be construed as if drafted jointly by the parties and in accordance with its fair meaning. There shall be no presumption or burden of proof favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

6.22. **Amendments.** Only a writing executed by the parties hereto or their respective successors and assigns may amend this Agreement.

6.23. **Waiver.** The delay or failure of either party at any time to require performance or compliance by the other of any of its obligations or agreements shall in no way be deemed a waiver of those rights to require such performance or compliance. No waiver of any provision of this Agreement shall be effective unless in writing and signed by a duly authorized representative of the party against whom enforcement of a waiver is sought. The waiver of any right or remedy in respect to any occurrence or event shall not be deemed a waiver of any right or remedy in respect to any other occurrence or event, nor shall any waiver constitute a continuing waiver.

6.24. **Severability.** If any provision of this Agreement is determined by a court of competent jurisdiction to be unenforceable in any circumstance, such determination shall not affect the validity or enforceability of the remaining terms and provisions hereof or of the offending provision in any other circumstance. Notwithstanding the foregoing, if the value of this Agreement, based upon the substantial benefit of the bargain for any party, is materially impaired, which determination made by the presiding court or arbitrator of competent jurisdiction shall be binding, then both parties agree to substitute such provision(s) through good faith negotiations.

6.25. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original. All counterparts shall be construed together and shall constitute one agreement.

6.26. **Corporate Authority.** The persons executing this Agreement on behalf of the parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said parties and that by doing so the parties hereto are formally bound to the provisions of this Agreement.

**IN WITNESS WHEREOF,** the parties hereto have caused this Agreement to be executed by and through their respective authorized officers, as of the date first above written.

12  NV5, Inc. ATTACHMENT 3
CITY OF PLACENTIA,  
A municipal corporation 

Damien Arrula, City Administrator

ATTEST:

Robert McKinnell, City Clerk and ex-officio Clerk 
of the City of Placentia 

CONSULTANT

Signature

Name and Title

Social Security or Taxpayer ID Number

APPROVED AS TO FORM:

Christian L. Bettenhausen, City Attorney

APPROVED AS TO INSURANCE:

Rosanna Ramirez, Risk Management

APPROVED AS TO CONTENT:

Masoud Sepahi, City Engineer

DEPARTMENTAL APPROVAL

Luis Estevez, Director of Public Works
EXHIBIT A
CONSULTANT'S PROPOSAL AND SCOPE OF WORK
A. LETTER OF TRANSMITTAL

PN. P27019-0003448.00

May 16, 2019

City of Placentia
Attn: Masoud Sepahi, PE, City Engineer
Placentia City Hall
401 E. Chapman Avenue
Placentia, CA 92870

SUBJECT: Request for Proposals - Engineering Design Services for FY 2019-20 Residential Slurry Seal and Arterial Roadway Rehabilitation Projects

Dear Mr. Sepahi,

NV5, Inc. is excited to have the opportunity to provide Engineering Design Services to the City of Placentia (City) for its FY 2019-20 Residential Slurry Seal and Arterial Roadway Rehabilitation projects. Our team has the knowledge and experience to ensure your project is completed on schedule and within budget. NV5’s strengths include the following:

Current Partnership: Our extensive experience and strong existing relationship with the City gives us the ability to continue providing engineering design services for your capital improvement projects. Specifically, our team has provided Professional Engineering Services for the City for the following projects:

- ADA Curb Ramp Reconstruction Project (Design services)
- Residential Street Rehabilitation Project (Design services)
- Santa Fe/Main Street Utility Undergrounding (Project Management services)
- Placentia Avenue Rehabilitation Project (Construction Management and Inspection services)

Proposed Team: NV5 offers the City a team of dedicated engineering design professionals with an unparalleled reputation and proven expertise. Understanding both the project requirements and scope of work requested by the City, we have selected David Niknafs, PE, as Project Manager. Mr. Niknafs served as the City’s Project Manager for its Residential Street Rehabilitation Project and ADA Curb Ramp Reconstruction Project.

Relevant Experience: We have a proven track record of successfully providing professional engineering design services to municipalities throughout Southern California, most of which have been repeat clients. Our proposed project team has completed similar street improvement projects for various clients, including:

- Various Streets Improvements, City of Costa Mesa
- FY2017-18 Annual Street Rehabilitation, City of Villa Park
- FY2018-19 Street Improvements, City of Lawndale
- Citywide Street Improvements, City of Pomona
- Citywide Street Improvements, City of La Habra Heights
- Huntington Drive Improvements, City of Monrovia

Addendum Acknowledgment: We have received Addendum No. 1 dated May 7, 2019. It has been signed and attached and is included in the Appendix.

Proposal Validity: This proposal will remain valid for a period of 120 days from the date of this submittal.

NV5 looks forward to the opportunity to work with the City and help you achieve your goals and objectives. If you need further information, we may be reached by phone at (949) 585-0477, or electronically at david.niknafs@nv5.com and jeff.cooper@nv5.com. Thank you for your time and consideration.

Sincerely,

NV5

[Signatures]

David Niknafs, PE
Director of Transportation

Jeffrey M. Cooper, PE
Director of Infrastructure (Authorized signer)

COMPANY INFORMATION/CONTACT
Name: NV5, Inc.
Address: 9890 Irvine Center Drive, Irvine, CA 92618
Authorized signer: Jeffrey M. Cooper, PE
Telephone Number: (949) 585-0477
Email of Contact: david.niknafs@nv5.com

9890 Irvine Center Drive | Irvine, CA 92618 | www.nv5.com | Office: 949.585.0477 | Fax: 949.585.0433

ATTACHMENT 3
EXHIBIT A
# B. TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Letter of Transmittal</td>
<td>01</td>
</tr>
<tr>
<td>B. Table of Contents</td>
<td>02</td>
</tr>
<tr>
<td>C. Summary Sheet</td>
<td>03</td>
</tr>
<tr>
<td>ORGANIZATION CHART</td>
<td>03</td>
</tr>
<tr>
<td>QUALIFICATIONS TABLE</td>
<td>04</td>
</tr>
<tr>
<td>RESUMES</td>
<td>06</td>
</tr>
<tr>
<td>PROJECT EXPERIENCE</td>
<td>28</td>
</tr>
<tr>
<td>D. Allocation of Resources</td>
<td>33</td>
</tr>
<tr>
<td>E. Scope of Work</td>
<td>35</td>
</tr>
<tr>
<td>F. References</td>
<td>44</td>
</tr>
<tr>
<td>G. Certification of Proposals</td>
<td>46</td>
</tr>
<tr>
<td>Cost Proposal</td>
<td>47</td>
</tr>
</tbody>
</table>

## APPENDIX

Addendum 1
C. SUMMARY SHEET - ORGANIZATION CHART

ORGANIZATION CHART

Our team of experts brings direct, relevant, successful and current experience working on projects of similar scope and complexity. We are equipped with the resources to provide the City with the requested Engineering Design Services. Shown below are team roles and responsibilities. Departure or reassignment of, or substitution for, any member of the designated project team or subconsultant will not be made without the prior written approval of the City.

PRINCIPAL IN CHARGE
Jeffrey M. Cooper, PE

PROJECT MANAGER
David Niknafs, PE

PROJECT ENGINEERS
Akram Hindiyeh, PE, TE
Angel Fuerstes, PE
Phil Kern, PE
Art Biscocho

GUAMMME GAU, PE, GE
Carl Henderson, PE, GE
Gene Custenborder, PG, CEG

SURVEY
Pete Golding, PLS
Paul Robotta, PLS, JD
Kevin McHugh, Jr., PLS

SWPPP ENGINEERS
Jennifer Peterson, PE, CFM, QSD/QSP, CPESC, LEED AP
David Maher, PE, QSD/QSP
Tamara O’Neal, PE

PROJECT DESIGNERS
Temo Molina, EIT
Mohamed Lazim, EIT
Reynaldo You, EIT

UTILIT Y COORDINATION
Geoff Schneekluth, EIT

TRAFFIC SIGNALS
Bernard K. Li, EE, TE, PTOE
Naree Kim, PE

* SUBCONSULTANT
C. SUMMARY SHEET - QUALIFICATIONS TABLE

STAFF QUALIFICATIONS
Our team has the ability to deliver quality products on schedule and within budget. Below, please find a chart including names, roles, education, experience, and applicable professional licenses and credentials. Resumes for key staff members start on page 6.

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Years of Experience</th>
<th>Education, Certifications &amp; Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeffrey M. Cooper, PE</td>
<td>Principal-in-Charge</td>
<td>40</td>
<td>M.S. Environmental Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.A. Economics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 31572</td>
</tr>
<tr>
<td>David Nknafs, PE</td>
<td>Project Manager</td>
<td>30</td>
<td>M.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 42697</td>
</tr>
<tr>
<td>Akram Hindleyh, PE, TE</td>
<td>Project Engineer</td>
<td>40</td>
<td>M.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 28510</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Traffic Engineer (CA) No. 1452</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OCTA Prequalified Pavement Inspector</td>
</tr>
<tr>
<td>Angel Fuertes, PE</td>
<td>Project Engineer</td>
<td>35</td>
<td>M.S. Public Administration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 40694</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Water Resources Planning Certificate,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>U.S. Army Corps of Engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 40831</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (NV) No. 9144</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Certificate CalEEMA Safety Assessment Program Evaluator - No. 68105</td>
</tr>
<tr>
<td>Phil Kern, PE</td>
<td>Project Engineer</td>
<td>30</td>
<td>B.S. Civil Engineering</td>
</tr>
<tr>
<td>Art Biscocho</td>
<td>Project Engineer</td>
<td>30</td>
<td>M.S. Civil Engineering (Geotechnical)</td>
</tr>
<tr>
<td>Guillaume Gau, PE, GE</td>
<td>Geotechnical Engineer</td>
<td>17</td>
<td>M.S. Civil Engineering and Construction Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 70015</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Geotechnical Engineer (CA) No. 2986</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ph.D. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.S. Civil Engineering (Geotechnical)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B.S. Civil Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Geotechnical Engineer (CA) No. 2886</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Civil Engineer (CA) No. 71115</td>
</tr>
<tr>
<td>Carl Henderson, PE, GE</td>
<td>Geotechnical Engineer</td>
<td>20</td>
<td>B.S. Geology</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Registered Geologist, (CA) No. 3992</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Certified Engineering Geologist, (CA) No. 1319</td>
</tr>
<tr>
<td>Gene Custenborder, PG, CEG</td>
<td>Geotechnical Engineer</td>
<td>38</td>
<td>B.A. Mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Professional Land Surveyor (CA) No. 4768</td>
</tr>
<tr>
<td>Pete Goulding, PLS</td>
<td>Survey</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

City of Placentia - FY 2019-20 Residential Slurry Seal and Arterial Roadway Rehabilitation Projects

ATTACHMENT 3
EXHIBIT A
## C. SUMMARY SHEET - QUALIFICATIONS TABLE

### KEY STAFF QUALIFICATIONS

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Years of Experience</th>
<th>Education, Certifications &amp; Licenses</th>
</tr>
</thead>
</table>
| Paul Robetta, PLS, JD                    | Survey                | 32                  | J.D. Law  
B.A. English  
Professional Land Surveyor (CA) No. 5334  
California State Bar No. 213987  
A.A. Mathematics  
Professional Land Surveyor (CA) No. 6310  
B.S. Civil Engineering  
Civil Engineer (CA) No. 67821  
Qualified SWPPP Developer  
Qualified SWPPP Practitioner  
Certified Floodplain Manager  
Certified Professional in Erosion & Sediment Control  
LEED Accredited Professional  
B.S. Civil Engineering  
Civil Engineer (CA) No. 86136  
Qualified SWPPP Developer  
Qualified SWPPP Practitioner  |
| Kevin McHugh, Jr., PLS                   | Survey                | 35                  |  
B.S. Civil Engineering  
Civil Engineer (CA) No. 69107  |
| Jennifer Peterson, PE, CFM, QSD/QSP, CPESC, LEED AP | SWPPP Engineer        | 29                  |  
J.D. Law  
B.A. English  
Professional Land Surveyor (CA) No. 5334  
California State Bar No. 213987  
A.A. Mathematics  
Professional Land Surveyor (CA) No. 6310  
B.S. Civil Engineering  
Civil Engineer (CA) No. 67821  
Qualified SWPPP Developer  
Qualified SWPPP Practitioner  
Certified Floodplain Manager  
Certified Professional in Erosion & Sediment Control  
LEED Accredited Professional  
B.S. Civil Engineering  
Civil Engineer (CA) No. 86136  
Qualified SWPPP Developer  
Qualified SWPPP Practitioner  |
| David Maher, PE, QSD/QSP                 | SWPPP Engineer        | 14                  |  
B.S. Civil Engineering  
Civil Engineer (CA) No. 69107  |
| Tamara O’Neal, PE                        | SWPPP Engineer        | 23                  |  
B.S. Civil Engineering  
Civil Engineer (CA) No. 69107  |
| Tema Molina, EIT                         | Project Designer      | 7                   |  
B.S. Civil Engineering  
Civil Engineer (CA) No. 69107  |
| Mohamed Lazlm, EIT                       | Project Designer      | 10                  | A.S. Mathematics and Engineering  
Engineer-in-Training (CA) No. 166401 |
| Reynaldo Ycu, EIT                        | Project Designer      | 15                  |  
B.S. Civil Engineering  
Civil Engineer (Manila Philippines) No. 32156  
Engineer-in-Training (MD) No. 25784  
M.B.A. Finance  
B.S. Civil Engineering  
Engineer-in-Training (CA) No. 139464  |
| Geoff Schneekluth, EIT                   | Utility Coordinator   | 5                   | NCEE Principles and Practice of Engineering (PE)  
Civil: Transportation Examination  
OCTA Asphalt Concrete (AC) Distress, PCC Distress, Streetsaver Software, and Paver Software Training  
CoursesFirst |
JEFFREY COOPER, PE
Principal-in-Charge (Management Contact)

Mr. Cooper has more than 40 years of professional consulting engineering experience providing the management of planning, design, construction, and inspection services for transportation and municipal road projects, park projects, master plans and designs for drainage, sewers, water and overhead utility undergrounding projects, which have included inventory work and condition assessment. He has overseen Plan Check Services for numerous cities in Southern California. He has extensive experience with the interpretation of plans, specifications, and related design manuals, checklists, and regulations. He is currently Treasurer for the Public Works Standard, Inc., “The Greenbook.”

Project Experience

Beach Boulevard Widening
CITY OF HUNTINGTON BEACH | HUNTINGTON BEACH, CA
Project Director. Mr. Cooper oversaw the design of widening improvements to add a northbound lane on Beach Boulevard at Edinger Avenue, which is State Highway 39 and under the jurisdiction of Caltrans. The project required design surveys, alignment studies, roadway widening plan and profiles, R/W acquisitions, storm drain system modifications, traffic signal modifications, striping and signing plans, streetlight relocations, various utility relocations, parkway landscaping, obtaining an encroachment permit from Caltrans, and the preparation of PS&E construction documents.

AB2928-Funded Street Design Projects
CITY OF GLENDALE | GLENDALE, CA
Project Director. Mr. Cooper oversaw the design survey, pavement structural section design, and the preparation of street rehabilitation, street reconstruction, curb, gutter, sidewalk, and handicap ramp reconstruction design plans, and striping plans for eight street segments totaling more than 2 miles of roadway. One of the eight segments included the preparation of a Caltrans encroachment permit.

Jamboree/Main Intersection Improvement Project, I-405 NB On-Ramps to Kelvin
CITY OF IRVINE | IRVINE, CA
Project Manager. This project was designed for the City of Irvine to improve the intersection of Jamboree Road and Main Street to mitigate the future deficient level of service (LOS) by adding a fifth northbound and a fifth southbound lane on Jamboree Road between the I-405 northbound on/off-ramps and Kelvin Avenue. The improvements were designed to meet current City, State and Federal standards. Estimated construction cost was $4M.

On-Call Engineering Services
CITY OF SANTA ANA | SANTA ANA, CA
Project Manager. Mr. Cooper oversaw services that included grading, soils report reviews, sewer, water, storm drain, hydrology reports, SWPPPs, street improvement plans, signing and striping plans, street lighting, parcel/tract maps, condominium plans, easements, and lot line adjustments.
| CONTACT INFO | david.niknafs@nv5.com  
|--------------|--------------------------|
|              | 949.585.0477  
| EXPERIENCE   | 30 years  
| EDUCATION    | M.S. Civil Engineering  
|              | B.S. Civil Engineering  
| LICENSES     | Civil Engineer (CA) No. 42697 (exp. 3/31/2020)  
| AFFILIATIONS | American Public Works Association (APWA)  
|              | American Society of Civil Engineers (ASCE)  
|              | Transportation & Development Institute  

**DAVID NIKNAFS, PE**  
Project Manager

Mr. Niknafs has more than 30 years of civil engineering experience in the public and private sectors working on various capital improvement projects and has extensive experience working as a project manager and senior engineer. He has managed numerous public works and development projects, including roadways, bridges, drainage, sewer, water, underground utilities, building facilities and related infrastructure improvement projects.

**Project Experience**

**Residential Street Rehabilitation Project**  
CITY OF PLACENTIA | PLACENTIA, CA

**Project Manager.** Mr. Niknafs provided professional design engineering services, including preparing plans, specifications and cost estimates for the City’s various street and ADA ramps rehabilitation. The project included the rehabilitation of existing pavement. Services provided included obtaining existing as-built plans and available pertinent data; taking pavement core samples at five locations; conducting field review and assessing pavement conditions; utility notification and coordination; preliminary and final bid packages; and construction support services.

**ADA Curb Ramp Reconstruction Project**  
CITY OF PLACENTIA | PLACENTIA, CA

**Project Manager.** Mr. Niknafs provided professional design engineering services, including plans, specifications and cost estimates for the ADA Curb Ramp Reconstruction Project. The project included the improvement of 90 curb ramps within City limits that were identified by a recent Accessibility Assessment Report. Services provided included obtaining all available pertinent data; conducting a field review; topographic survey; preliminary and final bid package; and bid and construction support services.

**Various Street Improvements**  
CITY OF COSTA MESA | COSTA MESA, CA

**Project Manager.** Mr. Niknafs is responsible for providing engineering design services for various street improvements projects as part of the City’s FY 2017-18 Capital Improvement Projects. The project includes the preparation of plans, specifications and cost estimates for various streets; and other professional engineering services including On-Call General Design and staff augmentation services. The project also requires coordination with utility companies.

**FY 2018-19 Street Rehabilitation**  
CITY OF LA HABRA HEIGHTS | LA HABRA HEIGHTS, CA

**Project Manager.** Mr. Niknafs is responsible for providing professional engineering design services for pavement improvements, which include slurry seal, grind and overlay. In addition, we will review drainage conditions and identify any existing drainage issues within the project limits, with any drainage improvement alternatives discussed and reviewed with the City.

**Pacific Coast Highway Arterial Improvements**  
CITY OF REDONDO BEACH | REDONDO BEACH, CA

**Project Manager.** Mr. Niknafs is responsible for the management of a comprehensive
C. SUMMARY SHEET - RESUMES

traffic analysis and the preparation of preliminary design recommendations to reduce congestion and increase safety on Pacific Coast Highway. Our team is preparing final plans, specifications and cost estimates for the intersection widening for a right-turn-only lane on southbound Pacific Coast Highway and Torrance Boulevard. We also will provide design and support services during bidding and construction phases.

Annual Residential Street Rehabilitation
CITY OF COMPTON | COMPTON, CA
Project Manager. Mr. Niknafs is responsible for providing professional engineering design services, including preparing plans, specifications and estimates for the City's annual residential street rehabilitation projects. Scope of work includes: review and analysis of the City's existing Pavement Management Study; research of the City's existing street plan information; performing necessary soil investigations and coring samples; utilities notification and coordination; topographic survey; field review; and improvements to street pavement, street drainage, curb and gutter, sidewalk, and ADA curb ramps.

Wilmington Avenue Pedestrian and Bicycle Improvements
CITY OF COMPTON | COMPTON, CA
Project Manager. Mr. Niknafs was responsible for providing design engineering services, including plans, specifications, cost estimates and related bid documents for the Wilmington Avenue Safe Streets Pedestrian/Bicycle Improvement Project. The project included pavement rehabilitation on Wilmington Avenue from El Segundo Boulevard to Rosecrans Avenue. Scope of work consisted of various pedestrian and bicycle improvements; the installation of wider and colored crosswalks; countdown pedestrian signals; enhanced pedestrian lighting; the installation of Class II bike lanes with wayfinding signage and Class I bike paths; and the installation of four solar-powered speed feedback signs for speed control and attainment.

FY 2017-18 Annual Street Rehabilitation
CITY OF VILLA PARK | VILLA PARK, CA
Project Manager. Mr. Niknafs is responsible for providing plans, specifications and estimates for the annual rehabilitation project. The improvements may include the removal and replacement of deteriorated sections of the streets by repaving or slurry seal; construction of curb and gutter or AC berm at certain locations of these streets; and the replacement of curb and gutters as needed to provide adequate drainage.

Colonial Avenue Alley Paving
CITY OF CULVER CITY | CULVER CITY, CA
Project Manager. Mr. Niknafs is responsible for providing professional design services for the Colonial Avenue Alleyway. As part of the Community Development Block Grant (CDBG) program, the Colonial Avenue Alleyway Paving project includes the paving of approximately 800 LF by 20 feet wide of the alleyway. The scope of work also involves field review, topographic survey, design plans, bid schedule and technical specifications, quantity and cost estimates.

Citywide Street Rehabilitation (2013-2015)
CITY OF POMONA | POMONA, CA
Project Manager. Mr. Niknafs was responsible for providing plans, specifications and estimates for the design of pavement rehabilitation, street improvements, bikeway improvements, pedestrian/ADA improvements, and landscape/Green Street and irrigation improvements on several City streets identified in the 2014 Pomona Active Transportation Plan (ATP) to increase pedestrian safety and mobility. Bikeway infrastructure improvements included the associated bike facility striping, signing, crossing improvements and signal modifications for bike detection. In addition, the project involves the landscaping and irrigation improvements associated with the City Corridor Specific Plan (CSP). Portions of this project were funded by Cycle 1 of the Active Transportation Program (ATP).

Various Street Improvements
CITY OF LYNWOOD | LYNWOOD, CA
Project Manager. Mr. Niknafs provided engineering services for various street improvement, curb and gutter, sidewalk, and wheelchair ramp improvement projects throughout the City of Lynwood. In addition, the design included water main improvements on several streets. His responsibilities included managing two design teams and overseeing preparations of plans, specifications and cost estimates.
AKRAM HINDIYEH, PE, TE
Project Engineer

Mr. Hindiyeh has more than 40 years of civil engineering experience in the public and private sectors. His responsibilities include serving as the City Engineer for the City of Villa Park, City Engineer for the City of La Habra Heights, and City Engineer/ Traffic Engineer for the City of Laguna Woods. In addition, he is also responsible for administering the design and construction of several major public works, traffic and transportation projects for the City of San Clemente. Mr. Hindiyeh’s experience includes developing and implementing Pavement Management System Programs, Sidewalk Inventory Programs, Street Improvement Programs, Major Street Maintenance Programs, and Traffic Signals Operation and Maintenance Programs.

Project Experience

Pavement Management Plan (PMP) Update
CITY OF GARDENA | GARDENA, CA
Project Engineer. Mr. Hindiyeh assisted in updating the City’s Pavement Management Plan (PMP) for 2017. Project tasks included reviewing all maintenance and rehabilitation activities conducted by the City since the last PMP update; collecting and recording pavement distress data per ASTM D6433-11 and Metro guidelines; preparing maps of the streets to be inspected; data entry; database verification/organization; and budgetary analysis.

El Toro/Aliso Creek Widening Phase II (LAPM compliance)
CITY OF LAGUNA WOODS | LAGUNA WOODS, CA
City Engineer. Mr. Hindiyeh was responsible for administering and managing the project and obtaining Caltrans E76 authorization to bid. This federally funded project was Phase II of a two-phase capital improvement project to widen El Toro Road, accommodate a paved 6-foot-wide Class II bike trail and a sidewalk that varied in width from 6 feet to 9 feet. The work also consisted of the construction of sidewalk, retaining wall and associated drainage structures, and the relocation of the existing Class II bike lane.

El Toro Road Pavement Rehabilitation (SLPP funded)
CITY OF LAGUNA WOODS | LAGUNA WOODS, CA
City Engineer. Mr. Hindiyeh was responsible for administering and managing this pavement rehabilitation project. The project reconstructed pavement on El Toro Road from Calle Sonora to 900 feet west of Moulton Parkway. Additional work included widening the sidewalk to allow for a multi-trail system and capping with rubberized asphalt. The project upgraded several access ramps in the surrounding area to meet ADA standards. This project was funded by an SLPP grant administered by Caltrans.

Annual Citywide Street Rehabilitation
CITY OF VILLA PARK | VILLA PARK, CA
City Engineer. Mr. Hindiyeh provides administration and management for the City’s annual street rehabilitation program. He is responsible for obtaining grants, plan design management, acting as owner/agent to conduct bids for projects, and administration of construction improvements. Our team provided data collection and field assessment for the rehabilitation of several streets and was responsible for completing the plans, specifications and cost estimates associated with the recommended street improvements and for inspection oversight during construction.
C. SUMMARY SHEET - RESUMES

ANGEL FUERTES, PE
Project Engineer

Mr. Fuertes has more than 35 years of civil engineering experience in both the public and private sectors. His professional experience includes serving as the Principal Civil Engineer/Engineering Manager/Assistant City Engineer for the City of Lake Forest, serving as the Assistant City Engineer for the City of Aliso Viejo, and as Senior Civil Engineer and Civil Engineer for the Public Works and Harbor Departments in the City of Long Beach. He has experience in managing large capital improvement projects including retaining and managing consultants and contractors using municipal guidelines.

Project Experience

Alton Parkway Extension Project
CITY OF LAKE FOREST | LAKE FOREST, CA
Project Manager. The $6M, six-lane, 1-mile extension project included mass grading, utilities, street improvements and a landscaped median. Responsibilities included procuring and managing contract services for design, construction management and inspection; negotiating construction contracts and administrating cost sharing agreements with developer (Shea Homes and Baker Ranch), County of Orange, and utility purveyors (Irvine Ranch Water District and Southern California Edison). This project earned an award from ASCE in 2013.

Bristol Street Improvements
CITY OF COSTA MESA | COSTA MESA, CA
Resident Engineer/Construction Manager. Mr. Fuertes is providing oversight and day-to-day support for five combined street improvement projects along Bristol Street in Costa Mesa. Project “A” is a federally funded project to construct raised medians along Bristol Street from Baker Street to Newport Boulevard. Project “B” is also federally funded and will rehabilitate sections of Bristol Street and Bear Street. Project “C” is the Santa Ana Delhi Channel Diversion, which will repair sewer mains and manholes near Bristol Street. Project “D” adds a new intersection and traffic signal at Bristol Street and Camp, as well as modifications to the signal at Bristol Street and Newport Boulevard. Project “E” provides storm drain improvements along Randolph Avenue. These projects required precise scheduling, detailed cost control, as well as labor compliance and oversight for the federally funded portions.

Rancho Parkway Roadway Project
CITY OF LAKE FOREST | LAKE FOREST, CA
Project Manager. The $4M, four-lane roadway project consisted of grading, curb, gutter, sidewalks, median landscaping and utilities. Mr. Fuertes' responsibilities included negotiating and administrating a cost sharing agreement with Irvine Ranch Water District, and procuring and managing design consultants, construction management and construction contractors.

Street Improvements and Landscape Medians
CITIES OF LAKE FOREST AND ALISO VIEJO | LAKE FOREST AND ALISO VIEJO, CA
Project Manager. Mr. Fuertes was the Project Manager for three roadway landscape median projects (Trabuco Road in City of Lake Forest, Aliso Creek Road in City of Aliso Viejo, and Pacific Park Parkway in City of Aliso Viejo). The projects included pavement resurfacing, curb and gutter rehabilitation, and constructing landscape medians.
PHIL KERN, PE
Project Engineer

Mr. Kern has more than 30 years of experience designing and processing public works projects. He has performed in the capacity of Project Manager on a wide variety of civil engineering projects involving transportation facilities, utility repairs and upgrades, and site work. He has been directly responsible for the preparation of grading plans, infrastructure improvement plans, specifications, traffic control/phasing plans, and construction administration for numerous complex civil engineering projects. In addition to having special technical emphasis in the areas of hydrology, hydraulics, site and transportation design, Mr. Kern's capabilities are enhanced by his eye for detail and skills in organization, project planning and written communication.

Project Experience

East Valley Parkway Widening
CITY OF ESCONDIDO | ESCONDIDO, CA
Project Manager. Mr. Kern is the Project Manager for design of the one-half-mile widening of East Valley Parkway and Valley Center Road to prime arterial standards between Beven Drive and the northerly city limits where it joined improvements previously constructed by the County. This $6M project will eliminate a traffic bottleneck and features a bridge widening, traffic signal modifications, streetscape design and preparation of right-of-way documents and environmental services. The designers took special care during the geometric approval phase of the project to ensure that the improvements were no more than needed to accommodate future traffic projections, saving the City capital funds that could be applied to other needs.

Melrose Drive Extension
CITY OF OCEANSIDE | OCEANSIDE, CA
QA/QC Officer. Mr. Kern is the QA/QC Officer for the design of the missing link of Melrose Drive between Spur Avenue, located about one-half mile south of State Route 76, and North Santa Fe Avenue, 300 feet north of Willowbrook Drive. This 3,000-foot roadway extension includes the design of a proposed bridge crossing over Guajome Lake Road and some wetland habitat. Additionally, Melrose Drive will be widened for 1,900 feet between North Santa Fe Avenue and Sagewood Drive.

College Boulevard Widening
CITY OF OCEANSIDE | OCEANSIDE, CA
Project Manager. Mr. Kern was the Project Manager for the preliminary design of widening of College Boulevard from four to six lanes between Olive Avenue and Camino de la Plata in the City of Oceanside. Efforts included geometric design, detailed field surveying of constraints, siting water quality BMPs and environmental coordination.

San Diego County Women's Detention Facility
COUNTY OF SAN DIEGO, CA
Project Manager. Mr. Kern is the Project Manager for preliminary and final civil engineering of a design-build project to replace the existing women's detention facility with a state-of-the-art, $221M, 478,000-square-foot facility on a 45-acre site. Design challenges include maintaining operations at the existing Las Colinas facility during construction of Phase 1, stormwater compliance at the riverside site and obtaining approvals by the local municipality and utilities.
ART BISCOCHO
Project Engineer

Mr. Biscocho has more than 30 years of experience as a Project Designer. He has a demonstrated ability to manage multiple projects from planning to construction close-out. He has a wealth of knowledge of the overall operational experience working with municipal agencies, and his qualifications include the ability to review and prepare construction plans, specifications and cost estimates; provide engineering counter assistance; process permits; and establish, maintain and foster positive working relationships with agency staff.

Project Experience

Citywide Street Rehabilitation
CITY OF POMONA | POMONA, CA
Project Designer. Mr. Biscocho prepared plans, specifications and estimates for the design of pavement rehabilitation, street improvements, bikeway improvements, pedestrian/ADA improvements, and landscape/Green Street and irrigation improvements on several City streets identified in the 2014 Pomona Active Transportation Plan (ATP) to increase pedestrian safety and mobility. Bikeway infrastructure improvements included bike facility striping, signing and crossing improvements and signal modifications for bike detection. The project involved landscaping and irrigation improvements associated with the City Corridor Specific Plan (CSP). Portions of this project were funded by Cycle 1 of the ATP.

Residential Street Rehabilitation Project
CITY OF PLACENTIA | PLACENTIA, CA
Project Designer. Mr. Biscocho prepared plans, specifications and a cost estimate for the City’s various street and ADA ramps rehabilitation. The project included the rehabilitation of existing pavement. Services provided included obtaining existing as-built plans and pertinent data; taking pavement core samples at five locations; conducting field review and assessing pavement conditions; utility notification and coordination; preliminary and final bid packages; and construction support services.

FY 2018-19 Street Improvements
CITY OF LAWNDALE | LAWNDALE, CA
Project Designer. Mr. Biscocho is responsible for preparing the plans, specifications and estimate for the rehabilitation of the alleyways that run parallel to Hawthorne Boulevard and Grevillea Avenue. Improvements include improving alley drainage; grading; removal and replacement of pavement sections; alley concrete gutter; constructing and repairing curb and sidewalk; and removal of trees and landscaping. Services included schedule and cost estimate and submittal review.

Annual Residential Street Rehabilitation
CITY OF COMPTON | COMPTON, CA
Project Designer. Mr. Biscocho is responsible for preparing plans, specifications and estimates for the City’s annual residential street rehabilitation projects. Scope of work includes: review and analysis of the City’s existing Pavement Management Study; research of the City’s existing street plan information; performing necessary soil investigations and coring samples; utilities notification and coordination; topographic survey; field review; and improvements to street pavement, street drainage, curb and gutter, sidewalk, and ADA curb ramps.
GUILLAUME GAU, PE, GE
Geotechnical Engineer

Mr. Gau's experience includes roadways, electric and gas lines, water pipelines, residential, commercial, schools, transportation, rail, landslide remediation and forensics projects. He also provides field engineering services and laboratory supervision for the testing and inspection for concrete, structural steel, masonry, soils, asphalt, and civil construction.

Project Experience

Melrose Drive Extension and Improvements
CITY OF OCEANSIDE | OCEANSIDE, CA
Geotechnical Engineer. Mr. Gau is the Geotechnical Engineer for the design and construction of the extension, including grading recommendations, pavement, culvert, pipeline and shoring design.

State Route 178 Widening Project
CALTRANS | STATE OF CALIFORNIA
Geotechnical Engineer. Mr. Gau was the Geotechnical Engineer for field and laboratory materials tester, plant inspector and source inspection services for the widening of SR-178. The project included grading observation, field density testing, asphalt testing and plant inspection and source inspection of 112,000 CY roadway excavation and fill placement, 62,000 CY of aggregate base and subbase and 83,000 ton HMA.

Black Canyon Road
SAN DIEGO COUNTY, CA
Senior Engineer/Project Manager. Mr. Gau was the Senior Engineer and Project Manager responsible for the geotechnical investigation and design of a section of roadway between the San Vicente Reservoir and adjacent Indian Reservation. Key geotechnical issues included slope stability, rock riprability, retaining wall and pavement design consisting of asphalt concrete over soil-cement base.

On-Call Materials Testing and Inspection Services
CITY OF VISALIA | VISALIA, CA
Geotechnical Engineer. Mr. Gau is the Geotechnical Engineer for annual on-call construction materials testing services for various infrastructure improvement projects comprising geotechnical and material testing, overlay and resurfacing (Cape Seal & Reclamite) projects, utilities projects, Independent Assurance services for federally funded projects, pavement evaluation services and concrete structures. Materials testing services covered soils, concrete, HMA, Cape Seals, Reclamite, and miscellaneous testing services.

C1090 Installation along Highway 79
SAN DIEGO GAS & ELECTRIC
Geotechnical Engineer. Mr. Gau was the Geotechnical Engineer for the installation of 7 miles of underground 39kv line to bring power to the new Jamul casino. Work included excavation monitoring and placement of structural backfill, aggregate base and subbase and HMA along Highway 79.
CARL HENDERSON, PHD, PE, GE
Geotechnical Engineer

Dr. Henderson has more than 20 years of experience performing geotechnical evaluations for a wide variety of projects including buildings, bridges, highways, roadways, embankments, levees, land development, and commercial and industrial facilities. He has extensive experience with embankment construction and stability evaluations for many large roadway construction projects in California. Over the past 12 years, he has served as the Senior Geotechnical Project Manager and Geotechnical Project Manager for some of the largest highway and bridge projects within San Joaquin County.

Project Experience

Sperry Road Extension
CITY OF STOCKTON | STOCKTON, CA
Geotechnical Project Manager. The project extends Sperry Road from Performance Drive to I-5. In addition, the interchange at I-5 and French Camp Road was modified. The project consisted of extending and realignment of Sperry Road; extending Performance Drive; realignment of French Camp Road to connect with the new Sperry Road; and modifications to interchange at I-5 and French Camp Road. Major structural elements included raising the grade along the new Sperry Road alignment up to 43 feet above ground; five (5) new bridge/oversychings; relocation of existing Sperry Road and extension of Performance Drive; and mechanically stabilized earth retaining structures along portions of Sperry Road.

McHenry Avenue Corridor Improvement Project
SAN JOAQUIN AND STANISLAUS COUNTIES
Senior Geotechnical Project Manager. The project includes replacing the existing McHenry Avenue Bridge (No. 38C-032) over the Stanislaus River to accommodate the planned widening of McHenry Avenue from a two-lane to a five-lane roadway.

S.R. 4 Crosstown Freeway Extension
CITY OF STOCKTON | STOCKTON, CA
Senior Geotechnical Project Manager. State Route 4 (SR-4) was extended southwesterly from its current terminus at Fresno Avenue to Navy Drive in the City of Stockton. Improvements include widening Navy Drive south of the Burlington Northern Santa Fe (BNSF) Underpass to Fresno Avenue, striping improvements on West Charter Way (SR-4), and installation of traffic signals. Major construction elements include a 21-span (1/2-mile long), elevated structure (twin viaducts) supported by embankments at both ends and concrete columns varying in height from approximately 30 feet to 55 feet.

Interstate 5/French Camp Road Interchange Improvements, State Bridge No. 29-220R/L
SAN JOAQUIN COUNTY, CA
Geotechnical Project Manager. The project included widening of the French Camp Turnpike Undercrossing Bridges located where I-5 crosses over French Camp Road. The widening involved joining new cast-in-place P/S concrete box girder sections to the existing two-span, concrete box girder. The widening is supported on widened concrete abutment walls and new pier bents.
C. SUMMARY SHEET – RESUMES

GENE CUSTENBORDER, PG, CEG
Geotechnical Engineer

Mr. Custenborder's experience includes a wide variety of work throughout Southern California. This experience includes geotechnical feasibility studies and geotechnical investigations for commercial, residential and public works projects in many types of terrain. He has performed geotechnical studies for roadways, electrical transmission lines, pipelines, water tanks and two rockfill dams.

Project Experience

Interstate 805/Carrol Canyon Road Extension
STATE DEPARTMENT OF TRANSPORTATION

Project Manager/Principal Investigator. Mr. Custenborder served as Project Manager and Principal Investigator for the geotechnical studies that included 67 borings and 20 cone penetration tests (CPT), laboratory testing, and preparation of foundation reports for the various structures. The site conditions included compressible, potentially liquefiable alluvial soils, shallow groundwater and retaining walls proposed on relatively steep slopes.

Melrose Drive Extension
CITY OF OCEANSIDE | OCEANSIDE, CA

Project Manager/Principal Investigator. Mr. Custenborder was the Project Manager, Principal Investigator and Principal Report Preparer for the geotechnical studies for the as-yet-to-be-constructed Melrose Drive Extension Project. The project will include construction of an approximately 3,000-foot-long segment of new roadway to connect Melrose Drive from its intersection with North Santa Fe Avenue northward to its intersection with Spur Avenue in Oceanside. The project includes cut and fill grading of approximately 50,000 cubic yards to construct the roadway. The project includes widening the existing Melrose Drive south of North Santa Fe Avenue and will require raising the intersection between Melrose and North Santa Fe Avenue by approximately 5 feet with transition work to be done along North Santa Fe Avenue as well as Melrose Drive. Precast arch culverts are proposed to be installed below Melrose Drive and below North Santa Fe Avenue at the intersection. A new bridge is proposed over the creek just south of Guajome Lake Road.

Lemon Grove Realignment Project
CITY OF LEMON GROVE | LEMON GROVE, CA

Project Manager/Principal Investigator. Mr. Custenborder was the project manager, principal investigator and principal report preparer for the geotechnical studies for the Lemon Grove Avenue Realignment Project, which included street improvements for the existing Lemon Grove Avenue off-ramp from the SR-94 Highway, North Avenue from Lemon Grove Avenue to 150-feet west of Olive Street, Olive Street from North Avenue to Pacific Avenue, and Pacific Avenue from Olive Street to Main Street. The project includes construction of 2:1 fill slope to support the connector ramp between the SR-94 and Lemon Grove overpass and North Avenue (for realignment of the existing Lemon Grove Avenue). North Avenue and Olive Avenue will be widened as part of the improvements. The improvements will include installation of subsurface utilities (i.e. water, sewer, storm drain) on North Avenue, Olive Street and Lemon Grove Avenue, and a sewer line on Pacific Avenue. The bore and jack method was proposed as the means to construct the utilities beneath the railroad tracks crossing North Avenue.
C. SUMMARY SHEET – RESUMES

PETE GOLDMING, PLS

Survey

Mr. Golding brings 45 years of experience that includes a wide variety of projects in both land development and public works projects. He has completed surveying projects in California, Nevada and Wisconsin, and his expertise includes hundreds of boundary retracements, many involving the Public Land Survey System, GPS surveying, map and ALTA production, and construction surveying. He has extensive office and field experience supporting his clients. He has prepared hundreds of plats and legal descriptions. He has prepared and been in responsible charge of many Parcel Maps, Final Maps and Records of Survey. He also has performed many topographic surveys by photogrammetric methods as well as by field collection methods.

Project Experience

Citrus Avenue Street Improvements
CITY OF IMPERIAL BEACH | IMPERIAL BEACH, CA
Survey Manager. Mr. Golding provided a detailed topographic survey of two blocks of City streets. A photogrammetric survey was performed then augmented with field shots using GPS, a conventional total station, and a survey level. Driveways and other private improvements were critical components of this survey. Boundary surveying was performed to accurately determine right-of-way limits of the street.

MacKinnon Avenue Improvements
CITY OF ENCINITAS | ENCINITAS, CA
Survey Manager. Mr. Golding provided a detailed topographic survey of streets in the vicinity of a vehicular bridge over I-5. The survey was a combination of data derived using GPS equipment as well as a conventional total station. Boundary surveying was performed in order to accurately determine the right-of-way limits of the street. Survey boundary monuments were destroyed (obliterated, not lost) during the construction of the project and were subsequently replaced. Also responsible for the construction staking of the new improvements.

Montgomery Avenue Street Improvements
CITY OF ENCINITAS | ENCINITAS, CA
Survey Manager. Mr. Golding provided a detailed topographic survey of portions of three city streets in support of an engineering project to provide plans for street improvements. Survey was done conventionally (on the ground) and included locating existing improvements and street rights-of-way. Construction staking also was provided. A survey monument was destroyed (obliterated) and replaced, after which a Corner Record was prepared and submitted to the County Surveyor.

B Street Improvements
CITY OF ENCINITAS | ENCINITAS, CA
Survey Manager. Mr. Golding's responsibilities included providing a detailed survey of B Street, which is planned for construction of new improvements to facilitate access to Moonlight State Beach. Photogrammetry was performed using an Unmanned Aerial Vehicle (UAV) or drone. The stereo photography taken by the UAV was used to create planimetric mapping as well as a 3D surface for the generation of contours. This data was then checked and augmented by conventional ground survey. Street rights-of-way were also surveyed to determine that the improvements to be constructed would fall within the dedicated portions of the street.
C. SUMMARY SHEET – RESUMES

<table>
<thead>
<tr>
<th>PAUL ROBUTTA, PL S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Survey</strong></td>
</tr>
</tbody>
</table>

Mr. Robotta has 32 years of experience in providing professional surveying services to both private and public sector clients. His expertise is in project management and delivery of projects for large energy providers, educational institutions and airports. He has a high level of expertise in providing and performing survey mapping, boundary research and resolution, ALTA preparation, topographic mapping and geodetic control, forensic surveying and exhibit preparation, and title issues including the Subdivision Map Act and construction support for public and private projects.

<table>
<thead>
<tr>
<th><strong>Project Experience</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Community Road Improvements</strong></td>
</tr>
<tr>
<td>CITY OF POWAY</td>
</tr>
<tr>
<td><strong>Survey Manager.</strong> Mr. Robotta provided surveying services for the road improvement project.</td>
</tr>
</tbody>
</table>

| **Ground Profiles and Staking** |
| RIVERSIDE AND IMPERIAL COUNTIES, CA |
| **Ground Profiles and Staking.** Mr. Robotta provided a ground profile of a proposed 90-mile electric transmission route over a predetermined alignment. In addition to the profile, NV5 had to locate all physical features within 300 feet of alignment. Once the tower positions were determined, NV5 staked the position of the towers and provided spot elevations around the towers for the design of the tower legs. This survey was performed in remote desert topography as well as mountainous terrain that had limited access for the 230KV transmission project. The corridor had ties to existing PLSS monuments and private survey monuments for reference and retracement. |

| **SDCWA Right-of-Way** |
| NORTHERN SAN DIEGO COUNTY, CA |
| **GPS Control Network.** Mr. Robotta established a GPS control network of more than 17 miles of San Diego County Water Authority (Authority) right-of-way. He provided a static GPS survey utilizing the City of San Marcos GIS/GPS control network for the basis of coordinates. NV5 tied to six of their control monuments and set an additional 25 control points. These control monuments will be used to make property tie from, which NV5 will establish and monument the Authority right-of-way for the San Diego County Water Authority. |

| **Bridge Alignment Surveys** |
| CITY OF JAMUL | JAMUL, CA |
| **Control Staking.** Mr. Robotta provided control stakes for grading, utilities, roads and the alignment of Steel Canyon Bridge in the City of Jamul for the construction of a 200-lot subdivision. |

| **Auto Mall Construction** |
| CITY OF EL CAJON | EL CAJON, CA |
| **Construction Staking Control.** Mr. Robotta provided construction control for the second phase of the Carlsbad Car County project, including the extension of Cannon Road to this development. Mr. Robotta also provided construction staking control for El Cajon Plaza Shopping Center. |
KEVIN McHUGH, Jr., PLS
Survey

Mr. McHugh is a licensed land surveyor with more than 35 years of experience. Kevin manages NV5's surveying operations in our Southern California Region. As survey manager, he supervises all surveying and mapping operations. This role includes oversight of field surveys, construction staking, field crew supervision, field and aerial topographic surveys, the preparation and quality control of final maps, record of surveys, legal descriptions, right-of-way maps, appraisal maps, boundary surveys and analysis, ALTA surveys, lot line adjustments, constraint maps, condominium plans, and corner records.

Project Experience

Newhope Street Expansion
CALTRANS | FOUNTAIN VALLEY, CA
Surveyor-in-Charge. Mr. McHugh served as Surveyor-in-Charge and was responsible for completing the boundary survey and analysis to determine the existing street right-of-way, Caltrans right-of-way, and private ownership boundaries, as well as the preparation and oversight of all legal descriptions and exhibits required for the City of Fountain Valley to acquire the additional necessary right-of-way for the project.

I-5/I-405 and Bake Parkway Interchange
CITY OF MISSION VIEJO | LAKE FOREST, CA
Land Surveyor-in-Charge. As Land Surveyor-in-Charge for this project, Mr. McHugh's duties covered densification of horizontal and vertical control, design surveys, aerial mapping, right-of-way base mapping and survey control maps for 3 miles of design cross sections. His work on the project included preparation of legal description and plats for right-of-way takes, and preparation of appraisal maps and right-of-way maps.

Gerald Ford Drive Extension
PALM DESERT, CA
Land Surveyor-in-Charge. Mr. McHugh was Land Surveyor-in-Charge for the Gerald Ford Drive from Portola Avenue to Cook Street project. His responsibilities included boundary surveying, mapping and legal descriptions for the extension.

MacArthur Boulevard Widening
NEWPORT BEACH, CA
Vice President/Land Surveyor-in-Charge. Mr. McHugh served as Vice President and Land Surveyor-in-Charge of surveying and mapping for this project for the City of Newport Beach. The project consisted of research and analysis of existing right-of-ways, boundary surveys, right-of-way mapping and coordination of parcel relinquishment with Caltrans District 12, for 7 miles of highway widening.

Laguna Canyon Road
LAGUNA BEACH, CA
Land Surveyor-in-Charge. Mr. McHugh was Land Surveyor-in-Charge for the project that consisted of research and compilation of record data, title report and deed interpretation, boundary surveys, analysis, preparation of legal descriptions, plats, appraisal maps and right-of-way maps for acquisition of new freeway right-of-way connecting to the I-405 freeway.
JENNIFER PETERSON, PE, CFM, QSD/QSP, CPESC, LEED AP

SWPPP Engineer

Ms. Peterson has 29 years of experience working in the water resources field and assisting clients with stormwater and water quality-related permits. She oversees all of NV5’s stormwater inspectors in Southern California and provides assistance to other offices and project managers in preparing technical documents and addressing challenging issues related to the State’s General Construction Permit, and Phase I and II Municipal (MS4) Permits. She has experience preparing SWPPPs and Water Pollution Control Plans, designing construction and post-construction BMPs to meet water quality and hydromodification requirements, setting up sampling programs, responding to RWQCB notice of non-compliance and violations, and providing training for contractors, developers and public agencies on various stormwater topics.

Project Experience

As-Needed Stormwater Services
UNIVERSITY OF CALIFORNIA SAN DIEGO | SAN DIEGO, CA

Project Manager. Ms. Peterson is the Project Manager for an As-Needed Stormwater Contract in which NV5 is providing Owner’s Representative services to support UCSD’s stormwater program, mainly related to the Construction General Permit (CGP) and the Phase II NPDES Permit. NV5 services for CGP include: conducting BMP audits for active construction sites, coordination of REAPS and all rain event inspections with contractors, review of SWPPP documents prepared by contractors, support of UCSD staff in filing Annual Reports needed for upload to SMARTS, providing contractor and owner training as needed on permit requirements, and representation of Owner (UCSD) in the event of any stormwater discharges or violations. Services for Phase II permit include helping UCSD revise design guidance for consultants, preparing worksheets for water quality calculations and documentation of project compliance, training management staff, and review of projects for water quality compliance.

Grossmont College SWPPP Services
EL CAJON, CA

Project Manager. Ms. Peterson is responsible for overseeing stormwater compliance on the New Student Services and Administrations Buildings project at the Grossmont College campus. NV5 is providing QSD and QSP services for this project, including preparation of a Risk Level 2 SWPPP, performing monthly site inspections and pH and turbidity sampling, updating the SWPPP, preparing Annual Reports, and managing all required reporting to SMARTS. In addition, NV5 has provided training to contractors on-site and also to District staff on the new General Construction Permit requirements.

SDG&E Contract for Stormwater Permitting and SWPPP Services
SAN DIEGO GAS & ELECTRIC

Project Manager. Ms. Peterson is responsible for overseeing this stormwater permitting contract. NV5 has been responsible for providing QSD and QSP services associated with the State’s Construction General Permit, including preparing traditional and linear SWPPPs for new projects as QSDs, performing BMP inspections and sampling as QSPs, updating and maintaining on-site SWPPPs, providing SWPPP training to contractors, updating SMARTS, providing weekly budget reporting/updates and project status reports, coordinating with SDG&E and SDG&E contractors in providing guidance to address BMP deficiencies and SWPPP compliance, and preparing project closeout documents.
C. SUMMARY SHEET – RESUMES

DAVID MAHER, PE, QSD/QSP

SWPPP Engineer

Mr. Maher has more than 14 years of experience with various capital improvement and utility projects. His qualifications include designing water and wastewater projects including mechanical, structural, civil elements utilizing CAD software, and project coordination. He has both design and construction management experience with projects such as sewage treatment plants that included several types of buildings like above-ground and underground concrete tanks, pre-cast concrete manholes, retaining walls, administration buildings, and tankers discharge facilities. He has extensive real-world knowledge in the fields of construction superintendent experience, project cost control, subcontracts management, scheduling and cost estimation, plan checking, and permit coordination.

Project Experience

Pacific Coast Highway Arterial Improvements
CITY OF REDONDO BEACH | REDONDO BEACH, CA

Project Engineer. Mr. Maher is providing ADA-compliance design services and construction support services to reduce congestion and increase safety on Pacific Coast Highway. Project limits are between Anita Street to the north and Palos Verdes Boulevard to the south. Our team is preparing final plans, specifications and cost estimates for the intersection widening for a right-turn-only lane on southbound Pacific Coast Highway and Torrance Boulevard. The project requires close coordination with Caltrans District 7. The NV5 project team is providing all coordination with Caltrans representatives throughout the design process, including conducting project meetings, all submittals, securing design approvals, and obtaining Caltrans encroachment permits.

North La Brea Avenue “Green Street” Improvements
CITY OF INGLEWOOD | INGLEWOOD, CA

Project Engineer. Mr. Maher is providing construction support services for this “Green Street” improvement project. The project mitigated existing distressed asphalt paving to the maximum extent possible and address stormwater runoff issues. Other improvements included: repair of damaged sidewalks, curbs and gutters, cross gutters, alley gutters and driveway approaches; relocation of water meter and other utility boxes; landscape and root pruning; installation of pavement markers and striping to current standards; and reconstruction of bus stop pads and media/medianization islands.

Grandview Pump Station No. 4
CITY OF GLENDALE DEPARTMENT OF WATER & POWER | GLENDALE, CA

Project Engineer. Mr. Maher is assisting in providing engineering services for design and construction support of the Grandview Pump Station No. 4 pumping unit replacement and corresponding Electrical and Mechanical System Improvements. Pumps No. 2 and 3 will stay in service and operate without interruption during the construction phase of Pump No. 4. The Grandview Pump Station is more than 70 years old and accounts for 25 percent of the City’s water supply. It has been experiencing failures and was tagged out of service. Scope of services includes: pump and motor design; 2400VAC electrical and equipment design; controls, instrumentation, and SCADA design; piping and valve design; civil, structural and miscellaneous design; site visits; coordination with the City; and construction support services. Deliverables will include: hydraulic analysis; design drawings; technical specifications; construction cost and duration estimate; final design submittal; and as-built drawings.
TAMARA O’NEAL, PE
SWPPP Engineer

Ms. O’Neal has more than 23 years of experience in municipal and private engineering services, including capital improvement and development review project management, sewer rehabilitation design and planning, stormwater quality regulatory, reporting and review services, asset management, floodplain development services, and environmental restoration services.

Project Experience

Master Water Quality Management Plan (WQMP)
DISNEYLAND RESORT | ANAHEIM, CA

Project Engineer. Ms. O’Neal assisted with the development and implementation of a WQMP for the Disneyland Resort to outline all existing and future opportunities for stormwater quality management at the site. Disneyland Resort’s master WQMP is the cornerstone for stormwater and urban runoff management for existing and future development, involving a comprehensive evaluation of current water quality data, existing source control and treatment control BMPs, and projected water quality impacts or benefits. Provided resort retrofit design and cost estimating services to facilitate ongoing compliance with Clean Water Act requirements, also provided technical assistance with the evaluation of new projects to maximize water quality benefits and contribute to the resort’s overall water quality goals within the framework of design constraints and regulatory requirements.

Water Quality Technical Support Services
CITIES OF DEL MAR AND ENCINITAS | DEL MAR, CORONADO, AND ENCINITAS, CA

Project Engineer. Ms. O’Neal provided technical support during the Cities’ 2008 Urban Runoff Management Plan revisions, advising City staff and assisting with implementation of program modifications required for compliance with the Municipal Stormwater Permit (Order No. 2001-01 and as of 2007 Order No. 2007-0001). Attended numerous community outreach events and assisted in municipal staff training programs, as well as developed project guidelines to facilitate implementation of the Cities’ Clean Water program revisions. Conducted dry weather sampling and prepared the Cities of Del Mar and Encinitas’ Annual Dry Weather Monitoring Reports.

Capital Improvement Projects
CITIES OF DEL MAR AND DANA POINT, CA

Ms. O’Neal served as extension of staff for the Cities’ of Del Mar and Dana Point Engineering Department. Responsibilities included assisting with project design and contract administration for the Cities’ Capital Improvement Program. Representative projects included sewer herbicide programs, traffic calming, open space and roadway beautification, and local park, sidewalk and storm drain design as part of the Cities’ overall annual street and drain program. Represented the City of Del Mar on numerous regional technical committees and coordinated with local and state agencies for Capital Improvement Project programming, funding and reporting purposes.
C. SUMMARY SHEET – RESUMES

TEMO MOLINA, EIT
Project Designer

Mr. Molina has more than seven years of experience in civil engineering design and construction inspection. He has actively participated in both the design and inspection of several roadway capital improvement projects. He is proficient in AutoCAD and MicroPaver, and he possesses a working knowledge of AutoCAD Civil3D, RISA 3D, and Sketch up PRO. His professional and dedicated civil engineering experience stems from increasingly responsible positions within public agencies including the cities of Lake Forest, Santa Ana and San Clemente. His construction inspection experience includes quantity tracking, assisting with field surveys, RFI/change order/progress payment tracking, and preparation of daily reports.

Project Experience

Residential Street Rehabilitation Project
CITY OF PLACENTIA | PLACENTIA, CA
Project Designer. Mr. Molina assisted in preparing plans, specifications and a cost estimate for the City’s various street and ADA ramps rehabilitation. The project included the rehabilitation of existing pavement. Services provided included obtaining existing as-built plans and available pertinent data; taking pavement core samples at five locations; conducting field review and assessing pavement conditions; utility notification and coordination; preliminary and final bid packages; and construction support services.

Various Street Improvements
CITY OF COSTA MESA | COSTA MESA, CA
Design Engineer. Mr. Molina is assisting in providing engineering design services for various street improvement projects as part of the City’s FY 2017-18 Capital Improvement Projects. The project includes the preparation of plans, specifications and cost estimates for various streets; and other professional engineering services including On-Call General Design and staff augmentation services. The project also requires coordination with utility companies.

Citywide Street Rehabilitation
CITY OF VILLA PARK | VILLA PARK, CA
Design Engineer. Mr. Molina assisted with the design and field assessment services for the rehabilitation of several streets within the City of Villa Park. Responsibilities included field inspection and data gathering; inputting all data into MicroPaver; assessing, identifying and prioritizing streets for improvements; recommending rehabilitation methods; and developing plans, specifications and estimates for the improvements.

Pavement Management Plan (PMP) Update
CITY OF GARDENA | GARDENA, CA
Project Engineer. Mr. Molina assisted in updating the City’s Pavement Management Plan (PMP) for 2017. Project tasks included reviewing all maintenance and rehabilitation activities conducted by the City since the last PMP update; collecting and recording pavement distress data per ASTM D6433-11 and Metro guidelines; preparing maps of the streets to be inspected; data entry; database verification/organization; and budgetary analysis.
MOHAMED LAZIM, EIT
Project Designer

Mr. Lazim has more than 10 years of experience as a project and design engineer on a variety of transportation and street projects for the private sector. He is an excellent communicator with staff, clients and the public, and is great working in both collaborative and independent environments. He is skilled in Microsoft Office and has extensive knowledge of AutoCAD and Civil 3D.

Project Experience

Residential Street Rehabilitation Project
CITY OF PLACENTIA | PLACENTIA, CA
Assistant Engineer. Mr. Lazim assisted in preparing plans, specifications and a cost estimate for the City’s various street and ADA ramps rehabilitation. The project included the rehabilitation of existing pavement. Services provided included obtaining existing as-built plans and available pertinent data; taking pavement core samples at five locations; conducting field review and assessing pavement conditions; utility notification and coordination; preliminary and final bid packages; and construction support services.

FY 2018-19 Street Improvements
CITY OF LA HABRA HEIGHTS | LA HABRA HEIGHTS, CA
Assistant Engineer. Mr. Lazim is currently assisting our team in providing engineering design services for pavement improvements, which include slurry seal, grind and overlay. In addition, we will review drainage conditions and identify any existing drainage issues within the project limits, with any drainage improvement alternatives discussed and reviewed with the City.

2018-19 Street Improvements
CITY OF LAWNDALE | LAWNDALE, CA
Assistant Engineer. Mr. Lazim is currently assisting our team in providing engineering design services for two separate projects which consist of improvements to pavement, drainage, sidewalk, drive approaches, wheelchair ramps, tree planting, etc.

Various Street Improvements
CITY OF COSTA MESA | COSTA MESA, CA
Assistant Engineer. Mr. Lazim is currently assisting our team in providing engineering design services for various street improvement projects. The project tasks include preparation of plans, specifications and cost estimate, construction support services for the first four projects, and other professional engineering services including on-call general design, geotechnical engineering, surveying and construction support services.

Colonial Avenue Alleyway Paving
CITY OF CULVER CITY | CULVER CITY, CA
Assistant Engineer. Mr. Lazim assisted our team in providing professional design services for the Colonial Avenue Alleyway. As part of the Community Development Block Grant (CDBG) program, the Colonial Avenue Alleyway Paving project includes the paving of approximately 800 LF by 20 feet wide of the alleyway. The scope of work also involves field review, topographic survey, design plans, bid schedule and technical specifications, quantity and cost estimates.
REYNALDO YCU, EIT
Project Designer

Mr. Ycu has more than 15 years of experience as a design engineer for various civil engineering and capital improvement projects, including water/wastewater and transportation projects. As a design engineer, his qualifications include the ability to review and prepare plans, specifications and cost estimates; surveying; and establishing, maintaining and fostering positive working relationships with agency staff. Mr. Ycu is proficient in CAD and other design software.

Project Experience

Residential Street Rehabilitation Project
CITY OF PLACENTIA | PLACENTIA, CA

**Project Designer.** Mr. Ycu prepared plans, specifications and a cost estimate for the City's various street and ADA ramps rehabilitation. The project included the rehabilitation of existing pavement. Services provided included obtaining existing as-built plans and available pertinent data; taking pavement core samples at five locations; conducting field review and assessing pavement conditions; utility notification and coordination; preliminary and final bid packages; and construction support services.

2013-2015 Major Streets Rehabilitation
CITY OF POMONA | POMONA, CA

**Project Designer.** Mr. Ycu prepared plans, specifications and estimates for various street improvements within the City. The project involved pavement rehabilitation, street improvements, bikeway improvements, pedestrian/ADA improvements, landscape/green-street and irrigation improvements on several City-owned streets identified in the 2014 Pomona Active Transportation Plan (ATP) to increase pedestrian safety and mobility. Bikeway infrastructure improvements included striping, signing, crossing improvements and signal modifications for bike detection. The project also included landscaping and irrigation improvements associated with the City Corridor Specific Plan (CSP). Portions of the project were funded by Cycle 1 of the Active Transportation Program (ATP).

Street Improvements Phase 1, 2, and 3
CITY OF POMONA | POMONA, CA

**CAD Designer.** Mr. Ycu was responsible for generating street improvement and striping plans; research for property information; examining aerial photos for additional survey data; cross checking plan sheets for errors; and marking up prints for corrections.

Huntington Drive Rehabilitation
CITY OF MONROVIA | MONROVIA, CA

**Design Engineer.** Mr. Ycu provided design services related to the Huntington Drive Improvements Project, Federal Project No. STPL-5069(014). The limits of this project included Huntington Drive from Magnolia Avenue to Shamrock Avenue. The improvements that were considered in developing this project included reconstruction and repair of the concrete roadway surface; replacement of sidewalk, curb and gutter (along both sidewalk and street medians); installation of ADA curb ramps, concrete bus pads; traffic signal upgrades; and updating roadway signage, striping, and pavement markers. This was a federally funded project.
GEOFF SCHNEEKLUTH, EIT

Utility Coordination

Mr. Schneekluth has more than five years of experience as a project engineer, project analyst and construction inspector on a variety of capital improvement projects for both the public and private sector. He is an excellent communicator with staff, clients and the public, and is great working in both collaborative and independent environments. He is skilled at Microsoft Office (Project, Word, Excel, PowerPoint), Bluebeam, Adobe Acrobat and AutoCAD).

Project Experience

OC Streetcar Project
ORANGE COUNTY TRANSPORTATION AUTHORITY | SANTA ANA, CA
Assistant Project Engineer. Mr. Schneekluth is responsible for providing utility research and coordination support on this $408M project. The project will extend 4.15 miles from Garden Grove to Santa Ana. Mr. Schneekluth is providing daily inspection reports with photos, coordinating utility and construction permits, maintaining permit records, and assisting project liaison with stakeholders.

Bristol Street Projects A-E
CITY OF COSTA MESA | COSTA MESA, CA
Contracts Administration. Mr. Schneekluth is providing construction administration for the five Bristol Street projects, in which two of the projects are federally funded. Mr. Schneekluth’s responsibilities include reviewing load delivery tickets and daily inspector, engineer, and testing reports for asphalt paving.

Construction Administration and Residential Permit Support Services for Underground Assessment District No. 117
CITY OF NEWPORT BEACH | CORONA DEL MAR, CA
Assistant Project Engineer. Mr. Schneekluth is providing construction support and administration services for Utility Underground Assessment District No. 117. The District was successfully formed in November 2015 with 268 parcels and is comprised of an 11-block area (268 parcels) in Corona del Mar bounded by Bayside Drive, Avocado Avenue, Coast Highway and Carnation Avenue. Construction began in July 2018, and the underground improvements will continue through 2019. Mr. Schneekluth’s responsibilities include: coordinating project details with utility companies, City and Contractor; maintaining a baseline schedule and Contractor’s two-week look-ahead schedule; providing exhibits based on project status to keep the public informed and up-to-date; and attending field meetings.

Heritage Lake Phase I TUMF Review
CITY OF MENIFEE | MENIFEE, CA
Project Analyst. Mr. Schneekluth reviewed reimbursement requests for the Heritage Lake Phase 1 street improvements. Working with the City and Developer, he reviewed each request in detail and made recommendations on reimbursement for this phase. The review included the following: check that all reimbursements were in compliance with the Community Facilities District agreement for each phase; reviewing change orders; reviewing checks and invoices; bidding process review; reviewing payroll; reviewing quantities; field review improvements; reviewing as-builts; and preparing a summary document and submitting it to the City.
BERNARD K. LI, EE, TE, PTOE
Associate Vice President

Mr. Li serves as an Associate Vice President of Iteris’ Transportation Systems division and has been with the firm since November 2010. He has over 29 years of experience in providing professional services in planning, design and implementation of traffic engineering and Intelligent Transportation Systems (ITS). Mr. Li has served as Project Manager or Principal-in-Charge on numerous traffic and ITS design/construction, traffic signal timing and synchronization, operational analysis, feasibility studies and municipal traffic engineering projects. His traffic engineering design expertise includes traffic signal installation, signal modification, roadway signage/striping, street lighting, and worksite traffic control and neighborhood traffic management. Mr. Li’s ITS experience comprises fiber optic communications, wireless communications, closed circuit television (CCTV), video-detection system (VDS) and dynamic message signs (DMS). He has also highly experienced in traffic signal operations. Using assisted numerous agencies in the analysis, retiming, and synchronization of traffic signals, both corridor and network wide. Mr. Li’s transportation planning expertise includes traffic impact studies, parking studies, transportation master plans, signal warrant analysis and stop warrant analysis. He has served as City Traffic Engineering Consultant for many agencies, helping to resolve numerous day-to-day traffic engineering issues, including resident inquiries, plan checking, and safety evaluations.

Project Experience

Barranca Parkway/Muirlands Boulevard Regional Traffic Signal Synchronization Project – Cities of Irvine, Lake Forest & Mission Viejo, CA

Mr. Li serves as the Project Manager to provide traffic/ITS design improvements and traffic signal synchronization for 44 intersections along a 13-mile segment of Barranca Parkway/Muirlands Boulevard. The project involves design of new fiber optic cables (multi and single mode), conduits, pull boxes, cabinets and controller upgrade in City of Irvine; New conduits, pull boxes, twisted pair interconnect, and wireless radio in City of Lake Forest; New cabinets, pedestrian signals and loop detection in City of Mission Viejo. In addition to the traffic signal infrastructure improvements, Iteris also developed signal coordination plans for AM, noon, off-peak, PM, “after-hours” and weekend for all project traffic signals along the corridor. This project began in June 2014 and is expected to be completed June 2018.

Pacific Park Drive/Oso Parkway Regional Traffic Signal Synchronization (TSS) Project – Various Cities within Orange County, CA

Mr. Li serves as Project Manager to provide turn-key infrastructure improvements and traffic signal synchronization for 32 intersections along an 8-mile segment of Pacific Park Drive/Oso Parkway, from Aliso Viejo Parkway to SR 241 ramps. The project is funded by the Renewed Measure M and is led by OCTA. The local agencies involved are: Cities of Aliso Viejo, Laguna Hills, Mission Viejo and the County of Orange. Infrastructure upgrade includes Ethernet-over-copper communications using Actelis switches, ASC/3 controllers, additional Centracis license for Laguna Hills, CCTV camera, EVP equipment, and loops detection. All 32 intersections were also retimed with AM, PM, mid-day, off-peak and weekend traffic signal coordination timing plans. Our synchronization effort has resulted in a benefit-to-cost ratio of 20:1 within the first year. This project began in August 2013. All the infrastructure improvements were completed in December 2013. New timing implementation was completed in February 2014, two months ahead of schedule. Iteris is will perform O&M through February 2016.
NAREE KIM, PE
Senior Engineer

Mrs. Kim serves as a Senior Engineer of Iteris' Transportation Systems and has been with firm since October 2008. Mrs. Kim has over 13 years of experience in the delivery of transportation and traffic engineering projects, with experience that includes the planning, design and deployment of ITS and traffic signal projects. Her ITS design experience includes fiber optic communications, CMS, VDS and traffic signal system upgrades. She has also served as Project Manager and Project Engineer on a variety of planning and traffic signal design projects including preparation of plans, specifications and cost estimates for traffic signals; arterial signing and striping; traffic operation systems; ramp metering systems; and street lighting. She has accomplished a number of traffic impact studies and traffic and circulation sections of EIRs/EISs. Mrs. Kim is proficient in the use of design and traffic analysis software including AutoCAD, MicroStation, AGI 32, ArcGIS, Synchro, and Autoturn.

Project Experience

I-405 Design-Build Improvement Project, Orange County Transportation Authority (OCTA) – Orange County, CA
Mrs. Kim serves as the MOT/Detour Plan and Street Lighting Design Plan Task Lead for Iteris, acting as a subconsultant of a multidisciplinary design and construction team, on this $1.2 billion dollar build project in Orange County California. The project will improve 16 miles of the I-405 between the SR-73 freeway in Costa Mesa and the I-605 near the Los Angeles County line. The project includes adding one regular lane in each direction from Euclid Street to I-605, making improvements to freeway entrances, exits and bridges, and will also implement Express Lanes that expands the existing HOV lane from one lane to two lanes in each direction from SR-73 to I-605. Iteris is responsible for the design of the Caltrans ITS field infrastructure, temporary ITS field infrastructure supporting maintenance of traffic during construction, toll system infrastructure and coordination, street lighting, agency traffic signal improvements along the corridor and development of the project Traffic Management Plan. Mrs. Kim is assisting project management with the preparation and development of Plans and Specifications for the maintenance of traffic, traffic management systems, Intelligent Transportation Systems (ITS), tolling integration, and traffic signals. The project began in February 2017 and is ongoing.

Jamboree Road/Main Street Intersection Improvements, I-405 NB On-Ramps to Kelvin – City of Irvine, CA
Mrs. Kim serves as Project Manager and currently providing design services for Jamboree Road/Main Street intersection improvement project for the City of Irvine. The project included the preparation of traffic signal improvement, communication, signing and striping, traffic control and staging plans. The project began in October 2015 and is ongoing.

Innovating Through Informatics™
C. SUMMARY SHEET - PROJECT EXPERIENCE

RESIDENTIAL STREET REHABILITATION PROJECT
CITY OF PLACENTIA | PLACENTIA, CA
NV5 prepared plans, specifications and cost estimates for the City's various street and ADA ramps rehabilitation. The project included the rehabilitation of existing pavement. Services provided included obtaining existing as-built plans and available pertinent data; taking pavement core samples at five locations; conducting field review and assessing pavement conditions; utility notification and coordination; preliminary and final bid packages; and construction support services.

DATES: MAY 2018-APRIL 2019
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, TEMO MOLINA, MOHAMED LAZIM, REYNALDO YCU

ADA CURB RAMP RECONSTRUCTION PROJECT
CITY OF PLACENTIA | PLACENTIA, CA
NV5 prepared plans, specifications and cost estimates for the ADA Curb Ramp Reconstruction Project. The project included the improvement of 90 curb ramps within City limits that were identified by a recent Accessibility Assessment Report. Services provided included obtaining all available pertinent data; conducting a field review; topographic survey; preliminary and final bid package; and bid and construction support services.

DATES: JULY 2018-APRIL 2019
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, TEMO MOLINA, MOHAMED LAZIM

CITYWIDE STREET IMPROVEMENTS
CITY OF LA HABRA HEIGHTS | LA HABRA HEIGHTS, CA
NV5 provided engineering design services for the preparation of plans, specifications and cost estimates for the City's annual citywide street and drainage improvements. Our team prepared contract documents for localized AC spot repairs; stretches of new curb or swale; grind and overlay; inventory of existing traffic signs and making recommendations on replacing existing signs or installing new ones; and preparation of detailed drawings, specifications and cost estimate.

DATES: DECEMBER 2017-MAY 2018
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO
CITYWIDE STREET IMPROVEMENTS
CITY OF POMONA | POMONA, CA
Our team provided design and construction support services for the $1.5M street rehabilitation. Improvements included total pavement reconstruction, redesign of existing cross sections as needed to improve drainage and driveability, and repair of damaged sections of the asphalt. Services also included field surveying, utility coordination; multiple agency coordination; installation of bike lanes; evaluation of access ramps for ADA compliance; and evaluation of traffic loop detectors; preparation of plans, specifications and cost estimates; and construction engineering support.

DATES: OCTOBER 2015-FEBRUARY 2016
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO

PCH ARTERIAL IMPROVEMENTS
CITY OF REDONDO BEACH | REDONDO BEACH, CA
Our team is conducting a comprehensive traffic analysis and preparing design recommendations to reduce congestion and increase safety on Pacific Coast Highway. Project limits are between Anita Street to the north and Palos Verdes Boulevard to the south. Our team is preparing final plans, specifications and cost estimates for the intersection widening for a right-turn-only lane on southbound Pacific Coast Highway and Torrance Boulevard. We will provide design and support services during bidding and construction phases. The NV5 project team is providing all coordination with Caltrans representatives throughout the design process.

DATES: NOVEMBER 2016-CURRENT
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, VANESSA PANETO

HUNTINGTON DRIVE IMPROVEMENTS
CITY OF MONROVIA | MONROVIA, CA
NV5 is providing engineering design services for the preparation of plans, specifications and cost estimates for the Huntington Drive Improvements projects, from Magnolia Avenue to Shamrock Avenue. The improvements included: reconstruction and repair of the concrete roadway surface, sidewalk, curb and gutter (along both sidewalk and street medians); installation of ADA curb ramps, concrete bus pads; traffic signal upgrades; drainage improvements; and updating roadway signage, striping, and pavement markers.

DATES: OCTOBER 2016-CURRENT
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, TEMO MOLINA
FY 2017-18 ANNUAL STREET REHABILITATION
CITY OF VILLA PARK | VILLA PARK, CA

Our team provided plans, specifications and estimates for the annual rehabilitation project. The improvements included the removal and replacement of deteriorated sections of the streets by repaving or slurry seal; construction of curb and gutter or AC berm at certain locations of these streets; and the replacement of curb and gutters as needed to provide adequate drainage.

DATES: DECEMBER 2017-JULY 2018
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, TEMO MOLINA

VARIOUS STREETS IMPROVEMENTS
COSTA MESA | COSTA MESA, CA

NV5 is providing engineering design services for various street improvement projects as part of the City’s FY 2017-18 Capital Improvement Projects. The project includes the preparation of plans, specifications and cost estimates for various streets and other professional engineering services including On-Call General Design and staff augmentation services. The project also requires coordination with utility companies.

DATES: FEBRUARY 2019-CURRENT
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, TEMO MOLINA

EAST 19TH STREET DESIGN IMPROVEMENTS
COSTA MESA | COSTA MESA, CA

Our team prepared plans, specifications and cost estimates for this federally funded Safe Route to School traffic-calming project. The scope of services consisted of preparing and processing environmental documents, civil engineering design plans (to include the use of bulb-outs and median improvements), and obtaining federal approval for construction and construction support. The project included roadway, pedestrian walkways, lighting, landscaping, and storm drain improvements. The project also included the design of three monument signs. In addition, we provided coordination with utility companies and stakeholders.

DATES: SEPTEMBER 2013-AUGUST 2015
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO
ANNUAL RESIDENTIAL STREETS REHABILITATION
CITY OF COMPTON | COMPTON, CA
Our team is providing engineering design services for the preparation of plans, specifications and estimates for the City’s annual residential street rehabilitation projects. Scope of work includes: review and analysis of the City’s existing Pavement Management Study; research of the City’s existing street plan information; performing necessary soil investigations and coring samples; utilities notification and coordination; topographic survey; field review; and improvements to street pavement, street drainage, curb and gutter, sidewalk, and ADA curb ramps.

DATES: JANUARY 2019-CURRENT
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, MOHAMED LAZIM

VARIOUS STREETS REHABILITATION
CITY OF LYNWOOD | LYNWOOD, CA
Our team provided street improvement design plans, contract documents, specifications, estimates and other appurtenant work for the rehabilitation of portions of Wisconsin Avenue, Sequoia Drive, Michigan Avenue, and Cornish Avenue. Improvements included rehabilitation of asphalt concrete, reconstruction of concrete curb and gutters, sidewalks, cross gutters, curb ramps and drive approaches, tree removal and parkway restoration, removal of existing and nonfunctional street lights and footing, removal and replacement of regulatory and other street signs, removal and installation of new fire hydrants, traffic striping, utility and other agency coordination, and bid assistance.

DATES: MARCH 2016-AUGUST 2016
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO

FY2018-19 STREET IMPROVEMENTS
CITY OF LAWNDALE | LAWNDALE, CA
Our team is preparing the plans, specifications and estimate for the rehabilitation of the alleyways that run parallel to Hawthorne Boulevard and Grevillea Avenue. Improvements included improving alley drainage; grading; removal and replacement of pavement sections; alley concrete gutter; construct and repair curb and sidewalk; and removal of trees and landscaping.

DATES: JULY 2018-CURRENT
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO
C. SUMMARY SHEET - PROJECT EXPERIENCE

"H" STREET WIDENING PROJECT
CITY OF SAN BERNARDINO | SAN BERNARDINO, CA

Our team is providing environmental and civil engineering design services for the widening of "H" Street from Kendall Drive to 40th Street from two lanes to four lanes and upgrading the existing traffic signals at 40th Street and Kendall Drive. We prepared plans, specifications and cost estimates for roadway, drainage, sewer, signing and striping, street lighting, modification to traffic signals, and demolition plans. We are coordinating with the utility companies, identifying existing right-of-way, and conducting pavement investigation and preparing a report. The street improvements include ADA-compliant curb ramps.

DATES: JANUARY 2018-CURRENT
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, MOHAMED LAZIM, REYNALDO YCU

COLONIAL AVENUE ALLEY PAVING
CITY OF CULVER CITY | CULVER CITY, CA

Our team provided professional design services for the Colonial Avenue Alleyway. As part of the Community Development Block Grant (CDBG) program, the Colonial Avenue Alleyway Paving project included the paving of approximately 800 LF by 20 feet wide of the alleyway. The scope of work also involved field review, topographic survey, design plans, bid schedule and technical specifications, quantity and cost estimates.

DATES: NOVEMBER 2017-MARCH 2018
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO, TEMO MOLINA

VARIOUS ALLEYS
CITY OF COSTA MESA | COSTA MESA, CA

Our team provided engineering design services for the preparation of individual PS&E for the rehabilitation of various alleys and for storm drain improvements to increase the capacity of an existing 48-inch reinforced concrete pipe. Improvements included grading, removal and replacement of pavement sections, crack sealing, grinding, pavement cold milling, excavation of deteriorated and poorly draining pavement, alley concrete gutter repair and construction, construction of asphalt concrete repair, asphalt concrete overlay, repair of existing curb, gutter and sidewalk, installation of traffic signing and pavement markings, and adjustment of manholes/valves.

DATES: APRIL 2013-JUNE 2016
KEY PERSONNEL: DAVID NIKNAFS, ART BISCOCHO
PROFESSIONAL ENGINEERING DESIGN SERVICES
RESIDENTIAL SLURRY SEAL AND ARTERIAL ROADWAY REHABILITATION PROJECT
DESIGN SCHEDULE

<table>
<thead>
<tr>
<th>Task Name</th>
<th>Duration</th>
<th>Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Design Phase</td>
<td>170 days</td>
<td>Mon 6/10/19</td>
<td>Fri 1/31/20</td>
</tr>
<tr>
<td>NTP</td>
<td>0 days</td>
<td>Mon 6/10/19</td>
<td>Mon 6/10/19</td>
</tr>
<tr>
<td>Kick Off Meeting</td>
<td>0 days</td>
<td>Mon 6/10/19</td>
<td>Mon 6/10/19</td>
</tr>
<tr>
<td>Obtain &amp; Review Record Drawings/As-Built Plans</td>
<td>1 wk</td>
<td>Mon 6/10/19</td>
<td>Fri 6/14/19</td>
</tr>
<tr>
<td>Conduct Field Review</td>
<td>1 wk</td>
<td>Mon 6/17/19</td>
<td>Fri 6/21/19</td>
</tr>
<tr>
<td>Utility Notification &amp; Coordination</td>
<td>7 wks</td>
<td>Mon 6/17/19</td>
<td>Fri 7/26/19</td>
</tr>
<tr>
<td>Topographic Survey</td>
<td>5 wks</td>
<td>Mon 6/24/19</td>
<td>Fri 8/2/19</td>
</tr>
<tr>
<td>Pavement Investigation</td>
<td>6 wks</td>
<td>Mon 6/24/19</td>
<td>Fri 8/2/19</td>
</tr>
<tr>
<td>Prepare Preliminary Plans (60%)</td>
<td>10 wks</td>
<td>Mon 8/5/19</td>
<td>Fri 10/11/19</td>
</tr>
<tr>
<td>City Review of Preliminary Plans (60%)</td>
<td>1 wk</td>
<td>Mon 10/14/19</td>
<td>Fri 10/18/19</td>
</tr>
<tr>
<td>Prepare PS&amp;E (90%)</td>
<td>8 wks</td>
<td>Mon 10/21/19</td>
<td>Fri 12/13/19</td>
</tr>
<tr>
<td>City Review of PS&amp;E (90%)</td>
<td>1 wk</td>
<td>Mon 12/18/19</td>
<td>Fri 12/20/19</td>
</tr>
<tr>
<td>Prepare Final PS&amp;E</td>
<td>5 wks</td>
<td>Mon 12/23/19</td>
<td>Fri 1/31/20</td>
</tr>
<tr>
<td>Submit Final PS&amp;E</td>
<td>0 wks</td>
<td>Fri 1/31/20</td>
<td>Fri 1/31/20</td>
</tr>
</tbody>
</table>

* This is a tentative schedule and subject to change upon the NTP date

ATTACHMENT 3
EXHIBIT A
<table>
<thead>
<tr>
<th>TASK NO.</th>
<th>WORK DESCRIPTION</th>
<th>PROJECT QA/QC MANAGER HOURS</th>
<th>PROJECT MANAGER HOURS</th>
<th>PROJECT ENGINEER HOURS</th>
<th>CAD DESIGNER HOURS</th>
<th>SURVEY ENGINEER HOURS</th>
<th>GEOTECH ENGINEER HOURS</th>
<th>TRAFFIC ENGINEER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Survey, Pavement Investigation, Preliminary &amp; Final Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Project Administration, Meetings and Coordination</td>
<td>12</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Obtain &amp; Review Record Drawings/As-Built Plans</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>Utility Notification and Coordination</td>
<td>4</td>
<td>8</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Field Review</td>
<td>4</td>
<td>12</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>Design Survey</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>145</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.6</td>
<td>Pavement Investigation and Report</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td></td>
<td>271</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>Traffic Signal Safety Improvements Design (3 Intersections)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td>238</td>
<td></td>
</tr>
<tr>
<td>1.8</td>
<td>Storm Water Pollution Prevention Plan (SWPPP)</td>
<td>8</td>
<td>30</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.9</td>
<td>Prepare 60% Plans</td>
<td>8</td>
<td>102</td>
<td>198</td>
<td>298</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.10</td>
<td>Prepare 90% Plans</td>
<td>8</td>
<td>57</td>
<td>108</td>
<td>150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.11</td>
<td>Prepare Final Plans</td>
<td>8</td>
<td>12</td>
<td>32</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.12</td>
<td>Prepare Specifications</td>
<td>1</td>
<td>4</td>
<td>14</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.13</td>
<td>Prepare Quantities and Cost Estimate</td>
<td>1</td>
<td>4</td>
<td>12</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.14</td>
<td>Reimbursable (printing &amp; deliveries)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>26</td>
<td>214</td>
<td>428</td>
<td>554</td>
<td>145</td>
<td>271</td>
<td>238</td>
</tr>
</tbody>
</table>
E. SCOPE OF WORK

PROJECT UNDERSTANDING
NV5 has reviewed the RFP and other available reports. In addition, we have performed a job-site walk to completely familiarize ourselves with the project goals and requirements. This groundwork provides a comprehensive understanding of anticipated key issues related to the requested professional services and will enable our team to promptly and efficiently execute the design services for the proposed project. We have a thorough understanding of the requested professional services, project requirements and demands. The project includes preparation of plans, specifications and cost estimates for the FY 2019-20 Residential Slurry and Arterial Roadway Rehabilitation Projects. It is our understanding that the slurry seal project will be funded by the SB-1 Gas Tax revenues, and the arterial roadway rehabilitation project will be funded by City funds. The City Measure U and Orange County Measure M funding also will be utilized for the projects. There is no federal funding associated with these projects. The estimated budget for both projects is $2.9M.

We understand that the City has adopted a 360-degree design philosophy regarding the approaches to the infrastructure improvements within the public right-of-way. The goal is to maximize construction value by incorporating all aspects of public infrastructure improvements into the projects. Therefore, the proposed projects will include pavement rehabilitation, reconstruction of curb and gutter, sidewalk, and ADA ramps. In addition, the proposed projects will include signing and striping improvements and traffic signal improvements where warranted.

It is our understanding that a Citywide Safety Analysis recommended various safety improvements, including installing flashing yellow protected/ permissive left-turn arrows, upgrading vehicle indications, and installing countdown pedestrian indications at the following intersections:
- Bastanchury Road at Placentia Avenue
- Golden Avenue at Kraemer Boulevard
- Bastanchury Road at Kraemer Boulevard

NV5 has been a leader in providing design services for street rehabilitation projects in Southern California. Our team has worked on the design for hundreds of pavement rehabilitation projects. We have been consulting with Pavement Recycling System, Inc. (PRS) and have been utilizing the most cost-effective pavement rehabilitation methods, including Cold Central Plant Recycling (CCPR), Cold In Place Recycling (CIR) or Full-Depth Reclamation (FDR), when applicable. Providing the best and the most cost-effective pavement rehabilitation method has saved our clients thousands of dollars.

In addition, the design of ADA-compliant curb ramps is an important part of the proposed projects. Our team has a clear understanding of the City requirements and expectations as they relate to the design of ADA curb ramps. We have recently successfully completed the design of more than 90 curb ramps for the City of Placentia. We know every step in the process, and there will not be a learning curve for us. We have successfully coordinated our design efforts with the City staff and BOA Architecture (the City’s CASp plan reviewer and inspector).

SPECIFIC CONSIDERATIONS AND KEY ISSUES
Key issues to be addressed for the proposed improvements will include no less than the following:

Project Analysis and Review - Our first step will include conducting a field review of the project area and evaluating existing conditions. We will obtain and review all available plans and records, including the City Pavement Management Plan Report from 2018. We will meet with the City representatives and define a detailed project scope and objectives. We will make sure our base maps show all the existing improvements. The base maps will then be confirmed during our field walks. The main objective is to have all existing improvements accurately depicted in our base map so that all constraints are considered during our design of the projects.

Utility Notification & Coordination - Street improvement projects can often result in impacts to existing utilities. All utilities must be shown on the plans. Thorough utility research will be conducted to ensure an accurate and comprehensive plan disclosure and to coordinate follow-up
E. SCOPE OF WORK

Investigative activities with those utility companies whose facilities are being impacted. Given that utility coordination is a very important aspect of any project, the NV5 team will apply a disciplined approach for managing joint activities with the utility agencies. If any utility relocation is deemed necessary, or if valves and manholes need to be raised to new grades, they will be identified at early stages of the design and coordinated with the responsible agency.

Design Survey - We will conduct a topographic survey (aerial) and prepare a topographic survey base map for the project area.

Geotechnical Investigation - We will provide pavement investigation services for the arterial roadways included in this project. We will consider alternatives such as slurry seal for residential streets; grind and overlay, full reconstruction, Cold Central Plant Recycling (CCPR), Cold In Place Recycling (CIR), and Full-Depth Reclamation (FDR) for arterial roadways. We will discuss with the City and recommend the best and the most cost-effective pavement rehabilitation method for each roadway.

Street Improvements - Our design team has conducted a preliminary field walk of the project locations to examine the existing pavement, curb, gutter, sidewalk, and curb ramps, including the items that would be impacted by the proposed improvement project. Examples of the items that are in need of attention are presented in Exhibits 1 and 3 on pages 40 and 42.

We will provide the City with the best and the most cost-effective improvement method to achieve the City's goal of improving the pavement within the project limits. It is our opinion that the existing pavement on most of the streets within the project limits is in need of improvements. In general, there is some longitudinal and transverse cracking within the project area. Based on our experience with similar types of projects, there are several pavement rehabilitation methods that could be utilized based on the existing condition of pavement. We will consider alternatives such as slurry seal (Tire Rubber Modified) for residential streets; grind and overlay, full reconstruction, Cold Central Plant Recycling (CCPR), Cold In Place Recycling (CIR), and Full-Depth Reclamation (FDR) for the arterial roadways. We will discuss with the City and recommend the best and the most cost-effective pavement rehabilitation method for each roadway.

Additionally, some of the existing intersections lack ADA-compliant ramps, and we recommend upgrading the curb ramps. The lifted or damaged curb and gutter, sidewalk, and curb ramps will be identified and included as part of the project.

As a sample representation, Exhibit 4 on page 43 shows a concept plan for a segment of residential street, and Exhibit 2 on page 41 shows a concept plan for a segment of arterial roadway. These are preliminary concept plans depicting some preliminary proposed improvements; however, it should be noted that a detailed design can only be achieved after conducting a comprehensive field assessment and discussing the proposed alternatives with the City representatives.

Stormwater Pollution Prevention Measures - NV5 has long been a leader in stormwater management and providing Stormwater Pollution Prevention Plan (SWPPP) support services to our clients. Our firm has been preparing and implementing SWPPP services for the past 20 years for both public and private clients. We have continually stayed ahead of the learning curve that comes with complying with the Statewide Construction General Permit (CGP) by staying active in the California Stormwater Quality Association (CASQA) and by maintaining excellent relationships with Regional Water Quality Control Board staff. Jennifer Peterson, who leads our Southern California water resources group, is currently serving on CASQA's Training Committee as Co-Chair and the CASQA Construction BMP Subcommittee. These two committees have been actively involved in providing training for Qualified SWPPP Developers (QSDs) and Qualified SWPPP Practitioners (QSPs), as well as providing input to State Water Board staff on revisions for the next CGP issued (draft expected in Winter 2019). NV5 currently has 12 QSDs/QSPs supporting our Southern California offices and clients. NV5 has several strengths when it comes to providing SWPPP support services as outlined below:

Strengths

- Training for Staff and Contractors – We have provided numerous field and classroom trainings on BMP implementation and can provide this service if needed.
- Experience with SMARTS – We can help the City file any paperwork related to SWPPP compliance, as we are very familiar with SMARTS and can navigate the system easily.
- Timely processing of NOIs/NOTs – We have been able to secure an NOI (Notice of Intent) for projects within 48 hours of being notified by a client.
- SWPPP Specifications – We have experience writing SWPPP/temporary best-management practice specifications that will ensure the best chance of success for contractor compliance.
- SWPPP Experience with Roadway projects – We have
prepared SWPPPs for multiple transportation projects, including roadway rehabilitation projects, and know the special needs these projects have regarding SWPPP implementation and phasing of BMPs.

- Oversight inspections/staff extension – We can act as an extension of your staff to provide oversight inspections to make sure that the Contractor's QSP is performing what is needed for compliance. This approach works well as an enforcement method to keep Contractors performing what is needed with minimal cost to the City. The benefit received results in fewer compliance headaches.

**Stakeholder Coordination** - Coordination with stakeholders will be critical to the project's success. We will determine early on what agencies and stakeholders will need to be included and meet with each one as required. The project will include coordination with each City department and all wet and dry utility providers, notifying the traveling public and adjacent property owners and schools, and communication with refuse collectors, the Postal Service, and emergency personnel.

**Public Outreach** - The general public needs to be a proactive element of the project. It is incumbent upon the designer and contractor to work with the City to inform the public and the School District of the project, proposed improvements, schedule and phasing.

**Meetings** - Meetings between NV5 and City staff will be crucial during all phases of the project. An initial kickoff meeting will be held in order to establish communications, set protocols and build the procedural framework for the project. Additional meetings will be conducted between the City staff, the engineering design team, utility companies and other essential parties at interest for the resolution of design and construction issues as needed.

**SCOPE OF WORK**

The following scope of work describes and illustrates in detail the methods and processes proposed by NV5 to accomplish the objectives of the project. The scope is broken down into the tasks as follows:

**PROJECT MANAGEMENT AND ADMINISTRATION** - At the start of the project, NV5 will have a kickoff meeting with City staff and the project team to review the project objectives, schedule, scope and approach. At this meeting, we will establish a point of contact for the project and request all available information related to the project. In addition, the NV5 Project Manager will coordinate all aspects of the project and manage the schedule and costs to ensure the project's completion to the satisfaction of the City. Review Meetings to be held with the City. It is anticipated that these meetings will include a project initiation meeting and meetings following the review of plans at the 60% and 90% submittals.

**UTILITY INVESTIGATION AND COORDINATION** - We will research and establish record location of all utilities within the project limits. Utility coordination on the project will be ongoing and will generally consist of the following subtasks:

- Access the Underground Service Alert's website and compile a list of member agencies that own facilities within the project limits.
- Notify each utility surveyor, in writing, of the City's proposed plans and schedule and request copies of record drawings or atlas maps of existing and proposed facilities within the project boundary.
- Obtain existing dry and wet utility plans/records within the project limits. This also includes the coordination of the adjustment of any utilities per City or other agency standards.
- Prepare a Utility Notification Log to track utility company contacts and responses, including contact information and dates of all outgoing and incoming correspondence.
- We will comply with the City of Placentia Utility Coordination Procedures.

**RESEARCH AND DATA COLLECTION** - We will research all information pertinent to the project, such as the available records, street improvement plans and Pavement Management Plan Report. We will review all previous studies, reports and plans. We will make sure our base maps show curb and gutter, access ramps, manholes, striping, traffic loops, etc. The base maps will then be confirmed during our field walks. The main objective is to
E. SCOPE OF WORK

have all existing improvements accurately depicted in our base maps so that all constraints are considered during the design of the project.

FIELD REVIEW - A minimum of one field walk will be scheduled at the project location to ensure a detailed depiction of existing conditions and work requirements on the plans and specifications. We believe that clear and concise plans and specifications are created from a total understanding of the existing conditions, properties and environment of the project. Consequently, we will conduct site visits as required to ensure a proper design.

DESIGN SURVEY - We will conduct an aerial topographic survey and provide the following field survey information as needed:

A. Prepare a topographic survey extending through the project area.

B. Plot the detailed survey notes and electronic mapping files using CAD on 24-inch-by-36-inch sheets identifying all existing conditions. Physical features will include pavement, curb, gutter, striping, and all other physical features within the project area. The fee for field survey for each ramp is listed separately and will be added to the total fee based on the total number of ramps designated for reconstruction.

PAVEMENT INVESTIGATION REPORT - We will provide pavement investigation services for the project for the City’s consideration. We will provide the tasks that meet the project goal, including the following:

We will perform a geotechnical reconnaissance for the project. We will take soil borings at strategic locations along arterial roadways (total of 38 core samples) to observe the existing pavement thickness and soil conditions beneath the project site and to facilitate collection of subgrade soil samples for lab testing. We will determine existing moisture content at a depth of 1.5 feet to 3 feet from the existing finished pavement surface. A minimum of two R-Value tests will be taken. The results of our field and laboratory testing will be provided in a report, including the following:

• Thickness of pavement
• Site soil characterization
• R-Value of subgrade soils
• Pavement section recommendations
• Pavement rehabilitation methods will be considered based on the existing condition of pavement.

We will consider alternatives such as slurry seal for residential streets; grind and overlay, full reconstruction, Cold Central Plant Recycling (CCPR), Cold In Place Recycling (CIR), and Full-Depth Reclamation (FDR) for arterial roadways. We will discuss with the City and recommend the best and the most cost-effective pavement rehabilitation method for each roadway.

We will submit the final pavement report to the City with all supporting documents.

STORMWATER POLLUTION PREVENTION PLAN - Our approach complying with the stormwater requirements during construction and the Santa Ana Water Quality Control Board would be to develop a single SWPPP for the Roadway Rehabilitation work that will be done for the 2019-20 year. The SWPPP would contain Water Pollution Control Plans (WPCPs) for the entire 800,000-square-foot area as shown on Attachment 1 of the RFP. We would use the SWPPP to address the project areas in preparing the WPCPs or alternatively, we can develop WPCPs using Google Earth and Bluebeam to draw the BMPs schematically. The WPCPs will depict the temporary BMPs that will be utilized during construction and may include silt fencing, fiber rolls, gravel bags, hydraulic mulch, or others specified in the SWPPP. NV5’s QSD will develop the project-specific SWPPP and work with the City to identify the total disturbed area. We are assuming that disturbed areas will include only those areas where full pavement reconstruction is performed (versus slurry seal only) and any other types of improvements such as curb ramps or other upgrades. NV5 will provide an electronic copy of the SWPPP to the City for upload to SMARTS and will assist with securing the permit (Waste Discharge Identification Number) prior to construction. We recommend that the City require the Contractor to hire the QSP who will perform all inspections and sampling that may be needed to minimize costs for the City that come with stormwater compliance. We also recommend that the City hire NV5 to perform monthly inspections/audits of the Contractor’s QSP to make sure that compliance is maintained during construction and no violations are obtained. We have used this approach on multiple projects within the last year and have achieved a higher success rate of compliance due to the oversight inspections.

PRELIMINARY IMPROVEMENT PLANS - We will utilize the survey information to prepare base plans. These base plans will then be used to prepare a preliminary design, including improvements within the project limits. These will be submitted to the City staff for review and consideration. All plans/reports/documents will be submitted in the format as specified in the RFP. We will prepare 11” x 17” maps for inclusion in the specifications for the residential streets designated for slurry seal. We will prepare
E. SCOPE OF WORK

preliminary plans for arterial roadway rehabilitation at scale 1" = 40'.

It is our understanding that a Citywide Safety Analysis recommended various safety improvements to the project intersections, including installing flashing yellow protected/permit left-turn arrows, upgrading vehicle indications, and installing countdown pedestrian indications.

The design plans will be prepared with detailed traffic signal improvements, construction details, utility locations, pole and conductor schedule, proposed phase diagrams, and all required removals, relocations, and dimensions needed to properly construct the traffic signal improvements at the following intersections:

- Bastanchury Road at Placentia Avenue
- Golden Avenue at Kraemer Boulevard
- Bastanchury Road at Kraemer Boulevard

Construction plans will include the following:

- Title Sheet and Location Map
- Typical Sections and Details
- Street Improvement Plans and Construction Notes
- Striping Plans
- Traffic Signal/Flashing Yellow Arrow Improvement Plans

FINAL IMPROVEMENT PLANS - Upon City review of the plans, specifications and cost estimates (PS&E) at the 60% and 90% completion level, we will proceed with the preparation of final PS&E. All plans will be submitted in the format as specified in the RFP. The plans will be prepared to conform to the general requirements of the City with consideration for the needs of the contractor's construction operations. NV5 will deliver completed and approved construction drawings on or ahead of approved schedules. All designs will be prepared and submitted in a manner that ensures a complete design approved by the City. Where applicable, the construction drawings will conform to the appropriate applicable standards such as City, County, State standard plans and APWA Standard Specifications for Public Works Construction “Greenbook,” and California Manual on Uniform Traffic Control Devices (MUTCD).

SPECIFICATIONS - We will prepare complete project specifications, including Special Provisions per the City's format and direction. Copies of the Standard General Provisions and Construction Contract Agreement will be supplied by the City to incorporate into the construction documents. We will submit the Specifications at 60% and 90% completion, and final Specifications with the final submittal. We will provide detailed specifications for traffic handling and construction scheduling. The specifications will include the following important items for the contractor consideration during the construction phase, which may impact scheduling of construction:

- School (and summer school) Schedules
- Trash Collection Schedules
- Street Sweeping Schedules

COST ESTIMATES - We will prepare complete construction quantity and cost estimates for the project. We will submit quantities and cost estimates at 60% and 90% completion, and final quantities and cost estimates with the final submittal.

We will provide final construction plans plotted on reproducible mylars. We will submit the final set of PS&E in printed and electronic formats. Electronic formats will include (AutoCAD, Microsoft Word, & Microsoft Excel) and complete PDF copy.
CONCEPTUAL PLAN PROPOSED IMPROVEMENTS

1. COLD MILL PAVEMENT 2" THICK AND CONSTRUCT 2" AC OVERLAY (ARHM) *
2. REMOVE AND CONSTRUCT PCC SIDEWALK
3. REMOVE AND CONSTRUCT ADA CURB RAMP
4. INSTALL STRIPING AND MARKING PER DETAIL SHOWN ON THE STRIPING PLAN

- Exact locations for pavement removal and reconstruction method of pavement rehabilitation will be determined subsequent to pavement investigation and consultation with the City.

This is a conceptual plan. Subsequent to conducting a survey and pavement investigation, a complete set of construction plans will be prepared. The plans will include appropriate notes and details for the proposed pavement rehabilitation project, which may include cold in place recycling.
CONCEPTUAL PLAN PROPOSED IMPROVEMENTS

1. CLEAN, CRACK SEAL AND APPLY SLURRY SEAL (TIRE RUBBER MODIFIED)
2. REMOVE AND CONSTRUCT PCC SIDEWALK
3. REMOVE AND CONSTRUCT ADA CURB RAMP
4. INSTALL STRIPING AND MARKING PER DETAIL SHOWN ON THE PLAN
5. INSTALL STOP BAR & LEGEND AS SHOWN ON THE PLAN

Exhibit location for pavement removal and reconstruction areas will be determined subsequent to field investigation.

This is a conceptual plan. Subsequent to conducting a survey and a comprehensive field investigation, a complete set of construction plans will be prepared. The plans will include appropriate notes and details for the proposed slurry seal project.
REFERENCES

Provided below are references of clients for whom engineering design services have been performed in the last five years that are comparable in quality and scope to that specified in this RFP. Our team has successfully provided similar services on myriad projects, and a full list of our project experience is available upon request.

CITY OF POMONA
Laura Lara
Engineering Associate
909.620.2275
laura_lara@ci.pomona.ca.us

Citywide Street Improvements
Our team provided design and construction support services for the $1.5M street rehabilitation project.

Key Personnel
David Niknafs, Art Biscocho
Dates: October 2015-February 2016

CITY OF LA HABRA HEIGHTS
Fabiola Huerta
City Manager
562.694.6302
fhuerta@hhcity.org

Citywide Street Improvements
NV5 provided engineering design services for the preparation of plans, specifications and cost estimates for the City’s annual citywide street and drainage improvements.

Key Personnel
David Niknafs, Art Biscocho
Dates: December 2017-May 2018

CITY OF VILLA PARK
Steve Franks
City Manager
714.998.500
sfranks@villapark.org

FY 2017-18 Annual Street Rehabilitation
Our team provided plans, specifications, and estimates for the annual rehabilitation project.

Key Personnel
David Niknafs, Art Biscocho, Temo Molina
Dates: December 2017-July 2018

CITY OF LAWNDALE
Kevin Moghadasi
Project Manager
Public Works Department
310.973.3265
kmoghadasi@lawndalecity.org

FY 2018-19 Street Improvements
Our team is preparing the plans, specifications and estimate for the rehabilitation of several alleyways.

Key Personnel
David Niknafs, Art Biscocho
Dates: July 2018-Current

CITY OF COSTA MESA
Bart Mejia
City Engineer
714.754.5378
bart.mejia@costamesacac.gov

Various Streets Improvements
NV5 is providing engineering design services for the City’s FY 2017-18 Capital Improvement Projects.

Key Personnel
David Niknafs, Art Biscocho, Temo Molina
Dates: February 2019-Current
TERMINATED CONTRACTS
To the best of our knowledge, there were no similar public agencies for which contracts were terminated in the last three years.
APPENDIX A

CERTIFICATION OF PROPOSAL TO THE CITY OF PLACENTIA

1. The undersigned hereby submits its proposal and, by doing so, agrees to furnish services to the City in accordance with the Request for Proposal (RFP), dated April 4, 2019 and to be bound by the terms and conditions of the RFP.

2. This firm has carefully reviewed its proposal and understands and agrees that the City is not responsible for any errors or omissions on the part of the proposer and that the proposer is responsible for them.

3. It is understood and agreed that the City reserves the right to accept or reject any or all proposals and to waive any informality or irregularity in any proposal received by the City.

4. The proposal includes all of the commentary, figures and data required by the Request for Proposal, dated April 4, 2019.

5. This firm has carefully read and fully understands all of the items contained in Section 9, General Requirements. This firm agrees to all of the general requirements except for those disclosed by the firm in project proposal, listed on an attachment.

6. The proposal shall be valid for one-hundred twenty (120) days from May 16, 2019.

Name of Firm: NV5, Inc.

By: ________________________________

(Authorized Signature)

Type Name: Jeffrey M. Cooper, PE

Title: Director of Infrastructure

Date: May 16, 2019
COST PROPOSAL

Our total cost proposal for all services to be delivered is included in a separately sealed envelope labeled "Fee Proposal."
APPENDIX
CITY OF PLACENTIA

REQUEST FOR PROPOSALS
PROFESSIONAL ENGINEERING DESIGN SERVICES
FOR
FY 2019-20 Residential Slurry Seal and Arterial Roadway Rehabilitation Projects

SUBJECT: Addendum #1

DATE: May 7, 2019

ADDENDUM ACKNOWLEDGMENT:

Firm Name: NV5, Inc.

Authorized Signature: [Signature]

Date: May 8, 2019

Acknowledgment of Receipt of Addendum #1 is required by signing.
# FEE PROPOSAL

City of Placentia  
Professional Engineering Design Services  
FY 2019-20 Residential Slurry Seal and Arterial Roadway Rehabilitation Projects

## TASK NO.  WORK DESCRIPTION  PROJECT QA/QC MANAGER $180  PROJECT MANAGER $180  PROJECT ENGINEER $130  CAD DESIGNER $90  SURVEY/ GEOTECH/ TRAFFIC  TOTAL FEE

1.0  Survey, Pavement Investigation, Preliminary & Final Design  
1.1  Project Administration, Meetings and Coordination  
1.2  Obtain & Review Record Drawings/As-Built Plans  
1.3  Utility Notification and Coordination  
1.4  Field Review  
1.5  Design Survey  
1.6  Pavement investigation and Report  
1.7  Traffic Signal Safety Improvements Design (3 Intersections)  
1.8  Storm Water Pollution Prevention Plan (SWPPP)  
1.9  Survey and Design of Curb Ramps (40 Ramps)  
1.10  Prepare 60% Plans  
1.11  Prepare 90% Plans  
1.12  Prepare Final Plans  
1.13  Prepare Specifications  
1.14  Prepare Quantities and Cost Estimate  
1.15  Construction Support Services (Review and Respond to RFI's & Submittals)  
1.16  Reimbursable (printing & deliveries)  

<table>
<thead>
<tr>
<th>TASK NO.</th>
<th>WORK DESCRIPTION</th>
<th>PROJECT QA/QC MANAGER $180</th>
<th>PROJECT MANAGER $180</th>
<th>PROJECT ENGINEER $130</th>
<th>CAD DESIGNER $90</th>
<th>SURVEY/ GEOTECH/ TRAFFIC</th>
<th>TOTAL FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Survey, Pavement Investigation, Preliminary &amp; Final Design</td>
<td>$0</td>
<td>12</td>
<td>$2,160</td>
<td>4</td>
<td>$520</td>
<td>30</td>
</tr>
<tr>
<td>1.1</td>
<td>Project Administration, Meetings and Coordination</td>
<td>$0</td>
<td>2</td>
<td>$360</td>
<td>4</td>
<td>$520</td>
<td>4</td>
</tr>
<tr>
<td>1.2</td>
<td>Obtain &amp; Review Record Drawings/As-Built Plans</td>
<td>$0</td>
<td>4</td>
<td>$720</td>
<td>8</td>
<td>$1,040</td>
<td>4</td>
</tr>
<tr>
<td>1.3</td>
<td>Utility Notification and Coordination</td>
<td>$0</td>
<td>4</td>
<td>$720</td>
<td>12</td>
<td>$1,160</td>
<td>12</td>
</tr>
<tr>
<td>1.4</td>
<td>Field Review</td>
<td>$0</td>
<td>2</td>
<td>$360</td>
<td>2</td>
<td>$260</td>
<td>4</td>
</tr>
<tr>
<td>1.5</td>
<td>Design Survey</td>
<td>$0</td>
<td>2</td>
<td>$360</td>
<td>2</td>
<td>$260</td>
<td>2</td>
</tr>
<tr>
<td>1.6</td>
<td>Pavement investigation and Report</td>
<td>$0</td>
<td>2</td>
<td>$360</td>
<td>2</td>
<td>$260</td>
<td>2</td>
</tr>
<tr>
<td>1.7</td>
<td>Traffic Signal Safety Improvements Design (3 Intersections)</td>
<td>$0</td>
<td>1</td>
<td>$180</td>
<td>2</td>
<td>$260</td>
<td>2</td>
</tr>
<tr>
<td>1.8</td>
<td>Storm Water Pollution Prevention Plan (SWPPP)</td>
<td>$0</td>
<td>8</td>
<td>$1,440</td>
<td>30</td>
<td>$3,240</td>
<td>38</td>
</tr>
<tr>
<td>1.9</td>
<td>Survey and Design of Curb Ramps (40 Ramps)</td>
<td>8</td>
<td>$1,440</td>
<td>18</td>
<td>$3,240</td>
<td>30</td>
<td>$3,200</td>
</tr>
<tr>
<td>1.10</td>
<td>Prepare 60% Plans</td>
<td>8</td>
<td>$1,440</td>
<td>102</td>
<td>$18,380</td>
<td>198</td>
<td>$25,740</td>
</tr>
<tr>
<td>1.11</td>
<td>Prepare 90% Plans</td>
<td>8</td>
<td>$1,440</td>
<td>57</td>
<td>$10,280</td>
<td>106</td>
<td>$14,040</td>
</tr>
<tr>
<td>1.12</td>
<td>Prepare Final Plans</td>
<td>8</td>
<td>$1,440</td>
<td>12</td>
<td>$2,160</td>
<td>32</td>
<td>$4,160</td>
</tr>
<tr>
<td>1.13</td>
<td>Prepare Specifications</td>
<td>1</td>
<td>$180</td>
<td>4</td>
<td>$720</td>
<td>14</td>
<td>$1,160</td>
</tr>
<tr>
<td>1.14</td>
<td>Prepare Quantities and Cost Estimate</td>
<td>1</td>
<td>$180</td>
<td>4</td>
<td>$720</td>
<td>12</td>
<td>$1,160</td>
</tr>
<tr>
<td>1.15</td>
<td>Construction Support Services (Review and Respond to RFI's &amp; Submittals)</td>
<td>$0</td>
<td>55</td>
<td>$9,900</td>
<td>50</td>
<td>$6,500</td>
<td>40</td>
</tr>
<tr>
<td>1.16</td>
<td>Reimbursable (printing &amp; deliveries)</td>
<td>34</td>
<td>$6,120</td>
<td>287</td>
<td>$51,660</td>
<td>509</td>
<td>$66,040</td>
</tr>
</tbody>
</table>

**Total Fee**: $308,500
CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFER NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Cavignac & Associates
450 B Street, Suite 1800
San Diego CA 92101

INSURED
NV5, Inc.
9890 Irvine Center Drive
Irvine, CA 92618

CONTACT NAME: Certificate Department
PHONE: Certificate Department
FAX: (A/C No.: 519-234-8601
EMAIL: certificates@cavignac.com

CERTIFICATE NUMBER: 1735195113
REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

<table>
<thead>
<tr>
<th>LTR</th>
<th>TYPE OF INSURANCE</th>
<th>A/D</th>
<th>BUR/WWW</th>
<th>POLICY NUMBER</th>
<th>POLICY EFF</th>
<th>POLICY EXP</th>
<th>LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>COMMERCIAL GENERAL LIABILITY</td>
<td>Y</td>
<td></td>
<td>9057140530</td>
<td>5/1/2019</td>
<td>5/1/2020</td>
<td>EACH OCCURRENCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DAMAGE TO PREMISES (At occurrence)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MED EXP (Any one person)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PERSONAL &amp; ADV INJURY</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GENERAL AGGREGATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PRODUCTS - COM/P/AGG</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOP GAP LIABILITY</td>
</tr>
<tr>
<td></td>
<td>Cross Liab/Sevnl</td>
<td>X</td>
<td>OCCUR</td>
<td></td>
<td></td>
<td></td>
<td>$1,000,000</td>
</tr>
<tr>
<td></td>
<td>$0 Deductible</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,000,000</td>
</tr>
<tr>
<td></td>
<td>GENL AGGREGATE LIMIT APPLIES PER:</td>
<td>X</td>
<td></td>
<td>03089530</td>
<td></td>
<td></td>
<td>$2,000,000</td>
</tr>
<tr>
<td></td>
<td>OTHER:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$2,000,000</td>
</tr>
<tr>
<td>B</td>
<td>AUTOMOBILE LIABILITY</td>
<td>Y</td>
<td></td>
<td>9057140575</td>
<td>5/1/2019</td>
<td>5/1/2020</td>
<td>COMBINED SINGLE LIMIT (At occurrence)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BODILY INJURY (Per person)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BODILY INJURY (Per accident)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PROPERTY DAMAGE (Per accident)</td>
</tr>
<tr>
<td></td>
<td>ANY AUTO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,000,000</td>
</tr>
<tr>
<td></td>
<td>ALL OWNED Autos</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,000,000</td>
</tr>
<tr>
<td></td>
<td>HIRED Autos</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,000,000</td>
</tr>
<tr>
<td></td>
<td>EXCESS LIAB</td>
<td>X</td>
<td>OCCUR</td>
<td></td>
<td></td>
<td></td>
<td>$20,000,000</td>
</tr>
<tr>
<td></td>
<td>UMBRELLA LIABILITY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$20,000,000</td>
</tr>
<tr>
<td></td>
<td>EXCESS LIAB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$20,000,000</td>
</tr>
<tr>
<td></td>
<td>CLAIMS-MADE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$20,000,000</td>
</tr>
<tr>
<td>D</td>
<td>WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY</td>
<td>Y/N</td>
<td>N/A</td>
<td>WC65070453556</td>
<td>5/1/2019</td>
<td>5/1/2020</td>
<td>E.L. EACH ACCIDENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E.L. DISEASE - EA EMPLOYEE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E.L. DISEASE - POLICY LIMIT</td>
</tr>
<tr>
<td></td>
<td>ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?</td>
<td>Y/N</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Mandatory in NH)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IF YES, DESCRIBE UNDER DESCRIPTION OF OPERATIONS BELOW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Professional Pollution Liability</td>
<td></td>
<td></td>
<td>AEC902912003</td>
<td>5/1/2019</td>
<td>5/1/2020</td>
<td>EACH CLAIM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E.L. EACH ACCIDENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E.L. DISEASE - EA EMPLOYEE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E.L. DISEASE - POLICY LIMIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$10,000,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$20,000,000</td>
</tr>
</tbody>
</table>

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101; Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER
City of Placentia
401 E. Chapman Ave.
Placentia CA 92870

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2014 ACORD CORPORATION. All rights reserved.

ACORD 25 (2014/01) The ACORD name and logo are registered marks of ACORD

ATTACHMENT 3 EXHIBIT B
ADDITIONAL INSURED – PRIMARY AND NON-CONTRIBUTORY

It is understood and agreed that this endorsement amends the BUSINESS AUTO COVERAGE FORM as follows:

SCHEDULE

<table>
<thead>
<tr>
<th>Name of Additional Insured Persons Or Organizations</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS REQUIRED BY CONTRACT</td>
</tr>
</tbody>
</table>

1. In conformance with paragraph A.1.c. of Who Is An Insured of Section II – LIABILITY COVERAGE, the person or organization scheduled above is an insured under this policy.

2. The insurance afforded to the additional insured under this policy will apply on a primary and non-contributory basis if you have committed it to be so in a written contract or written agreement executed prior to the date of the "accident" for which the additional insured seeks coverage under this policy.

All other terms and conditions of the Policy remain unchanged.
This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

It is understood and agreed as follows:

I. WHO IS AN INSURED is amended to include as an Insured any person or organization whom you are required by written contract to add as an additional insured on this coverage part, but only with respect to liability for bodily injury, property damage or personal and advertising injury caused in whole or in part by your acts or omissions, or the acts or omissions of those acting on your behalf:

   A. in the performance of your ongoing operations subject to such written contract; or
   B. in the performance of your work subject to such written contract, but only with respect to bodily injury or property damage included in the products-completed operations hazard, and only if:
      1. the written contract requires you to provide the additional insured such coverage; and
      2. this coverage part provides such coverage.

II. But if the written contract requires:

   A. additional insured coverage under the 11-85 edition, 10-93 edition, or 10-01 edition of CG2010, or under the 10-01 edition of CG2037; or
   B. additional insured coverage with "arising out of" language; or
   C. additional insured coverage to the greatest extent permissible by law;

then paragraph I. above is deleted in its entirety and replaced by the following:

WHO IS AN INSURED is amended to include as an Insured any person or organization whom you are required by written contract to add as an additional insured on this coverage part, but only with respect to bodily injury, property damage or personal and advertising injury arising out of your work that is subject to such written contract.

III. Subject always to the terms and conditions of this policy, including the limits of insurance, the Insurer will not provide such additional insured with:

   A. coverage broader than required by the written contract; or
   B. a higher limit of insurance than required by the written contract.

IV. The insurance granted by this endorsement to the additional insured does not apply to bodily injury, property damage, or personal and advertising injury arising out of:

   A. the rendering of, or the failure to render, any professional architectural, engineering, or surveying services, including:
      1. the preparing, approving, or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
      2. supervisory, inspection, architectural or engineering activities; or
   B. any premises or work for which the additional insured is specifically listed as an additional insured on another endorsement attached to this coverage part.

V. Under COMMERCIAL GENERAL LIABILITY CONDITIONS, the Condition entitled Other Insurance is amended to add the following, which supersedes any provision to the contrary in this Condition or elsewhere in this coverage part:

Primary and Noncontributory Insurance

CNA75079XX (10-16)  Policy No: 6057040530
Page 1 of 2  Effective Date: 05/01/2019

Insured Name: NV5 Global, Inc  ATTACHMENT 3
Copyright CNA All Rights Reserved. Includes copyrighted material of Insurance Services Office, Inc., with its permission.  EXHIBIT B
With respect to other insurance available to the additional insured under which the additional insured is a named insured, this insurance is primary to and will not seek contribution from such other insurance, provided that a written contract requires the insurance provided by this policy to be:

1. primary and non-contributing with other insurance available to the additional insured; or
2. primary and to not seek contribution from any other insurance available to the additional insured.

But except as specified above, this insurance will be excess of all other insurance available to the additional insured.

VI. Solely with respect to the insurance granted by this endorsement, the section entitled COMMERCIAL GENERAL LIABILITY CONDITIONS is amended as follows:

The Condition entitled Duties In The Event of Occurrence, Offense, Claim or Suit is amended with the addition of the following:

Any additional insured pursuant to this endorsement will as soon as practicable:

1. give the Insurer written notice of any claim, or any occurrence or offense which may result in a claim;
2. send the Insurer copies of all legal papers received, and otherwise cooperate with the Insurer in the investigation, defense, or settlement of the claim; and
3. make available any other insurance, and tender the defense and indemnity of any claim to any other insurer or self-insurer, whose policy or program applies to a loss that the Insurer covers under this coverage part. However, if the written contract requires this insurance to be primary and non-contributory, this paragraph 3 does not apply to insurance on which the additional insured is a named insured.

The Insurer has no duty to defend or indemnify an additional insured under this endorsement until the Insurer receives written notice of a claim from the additional insured.

VII. Solely with respect to the insurance granted by this endorsement, the section entitled DEFINITIONS is amended to add the following definition:

Written contract means a written contract or written agreement that requires you to make a person or organization an additional insured on this coverage part, provided the contract or agreement:

A. is currently in effect or becomes effective during the term of this policy; and
B. was executed prior to:
   1. the bodily injury or property damage; or
   2. the offense that caused the personal and advertising injury;

   for which the additional insured seeks coverage.

Any coverage granted by this endorsement shall apply solely to the extent permissible by law.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.
This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

<table>
<thead>
<tr>
<th>SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name Of Person Or Organization:</strong></td>
</tr>
<tr>
<td>Any person or organization against whom you have agreed to waive such right of recovery in a written contract or agreement.</td>
</tr>
</tbody>
</table>

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

It is understood and agreed that the condition entitled **Transfer Of Rights Of Recovery Against Others To The Insurer** is amended by the addition of the following:

Solely with respect to the person or organization shown in the Schedule above, the Insurer waives any right of recovery the Insurer may have against such person or organization because of payments the Insurer makes for injury or damage arising out of the **Named Insured's** ongoing operations or **your work** done under a contract with that person or organization and included in the **products-completed operations hazard**.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.